LOS OSOS GROUNDWATER BASIN, BASIN MANAGEMENT COMMITTEE

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Los Osos Groundwater Basin, Basin Management Committee Board of Directors will hold a **Regular Board Meeting** at **1:30 P.M.** on **Wednesday, April 20, 2022** at the **Los Osos Community Services District Boardroom,** located at 2122 9th Street Suite 106, Los Osos, CA 93402 Members of the public may participate in this meeting in person or via teleconference and/or electronically.

For quick access, go to https://us04web.zoom.us/j/778762508
(This link will help connect both your browser and telephone to the call)
If not using a computer, dial 1 (669) 900-6833 or 1 (346) 248-779 and enter **778 762 508**

All persons desiring to speak during any Public Comment can submit a comment by:

- Email at danheimel@ConfluenceES.com by 5:00 PM on the day prior to the Committee meeting.
- Teleconference by phone at 1 (669) 900-6833 and enter **778 762 508**
- Teleconference by phone at 1 (346) 248-7799 and enter **778 762 508**
- Teleconference meeting at https://us04web.zoom.us/j/778762508
- Mail by 5:00 PM on the day prior to the Committee meeting to:
  Attn: Dan Heimel (Basin Management Committee)
  2122 9th St.
  Suite 110
  Los Osos, CA 93402

Directors: Agenda items are numbered for identification purposes only and may not necessarily be considered in numerical order.

NOTE: The Basin Management Committee reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act, all possible accommodations will be made for individuals with disabilities, so they may participate in the meeting. Persons who require accommodation for any audio, visual or other disability in order to participate in the meeting of the BMC are encouraged to request such accommodation 48 hours in advance of the meeting from Dan Heimel at danheimel@ConfluenceES.com.

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS AGENDA

1. **CALL TO ORDER**

2. **ROLL CALL**

3. **BOARD MEMBER COMMENTS**

   Board members may make brief comments, provide project status updates, or communicate with other directors, staff, or the public regarding non-agenda topics.

4. **SPECIAL PRESENTATION**

   None

5. **CONSENT AGENDA**

   The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted and may be approved in their entirety by one motion. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time.

Consent items generally require no discussion. However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the "Action Items" portion of the Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

a. **2022 Budget Update and Invoice Register**
b. **Approval of Minutes from February 16, 2022 BMC Meeting**

6. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

The Basin Management Committee will consider public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Basin Management Committee. The Basin Management Committee cannot enter into a detailed discussion or take any action on any items presented during public comments at this time. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

7. EXECUTIVE DIRECTOR'S REPORT

8. ACTION ITEMS

a. Presentation of Draft 2021 Groundwater Production Estimates, Recycled Water Deliveries and Basin Metrics

Recommendation: Receive an update on preliminary findings from 2021 Annual Report and provide direction to staff.

b. Third Program C Well Implementation Status

Recommendation: Consider authorization of use Technical Support/Adaptive Management Services to evaluate re-inclusion of the 3rd Well into Program C or provide alternate direction to staff.

c. WRFP Study and Transient Model RFP

Recommendation: Receive a draft of the WRFP Study and Transient Model RFP and provide direction to staff.

d. BMC Legal Counsel RFP

Recommendation: Receive a draft of the BMC Contract Legal Services RFP and provide direction to staff.

9. ADJOURNMENT

Attachment 1: Cost Summary (January 2022 to Current Date) for Calendar Year 2022 Budget

Item	Description	Budget Amount	Approved Contingency Allocation	Updated Allocated Budget Amount	Costs Incurred	Percent Incurred	Remaining Budget
1	BMC Executive Director Facilitation and Legal Counsel Contingency	$90,000		$90,000	$10,800.00	12.0%	$79,200
2	Meeting Expenses - facility rent	$1,500		$1,500	$0.00	0.0%	$1,500
3	Meeting expenses - audio and video services	$6,000		$6,000	$0.00	0.0%	$6,000
4	Technical Support/Adaptive Management Services	$15,000		$15,000	$320.00	2.1%	$14,680
5	Groundwater Monitoring	$42,000		$42,000	$3,853.80	9.2%	$38,146
6	2021 Annual Report	$56,000		$56,000	$42,385.00	75.7%	$13,615
7	Grant Pursuit Contingency	$5,000		$5,000	$0.00	0.0%	$5,000
8	WRFP Study Year 1 (Peer Review)	$15,000		$15,000	$0.00	0.0%	$15,000
9	Lower Aquifer Monitoring Well Improvement	$25,000		$25,000	$0.00	0.0%	$25,000
10	Los Osos Creek Stream Gage Rating Curve	$25,000		$25,000	$7,403.40	29.6%	$17,597
	Subtotal	$280,500		$280,500	$64,762		$215,738
	10% Contingency (rounded to nearest $100)	$28,100					
	Total	**$308,600**			**$64,762**	**21.0%**	**$243,838**
	LOCSD (38%)	$117,268					
	GSWC (38%)	$117,268					
	County of SLO/SLOCFC&WCD (20%)	$61,720					
	S&T Mutual (4%)	$12,344					

Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2022

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Date Executive Director Approved	Date BMC Chairperson Approved	Date BMC Approved
CHG	20211203	$6,490.00	Dec-21	Annual Report Preparations	6	Jan-22		
CHG	20211204	$2,534.40	Dec-21	Groundwater Monitoring	5	Jan-22		
CHG	20211205	$5,076.40	Dec-21	Rating Curve Development	11	Jan-22		
ConfluenceES	1011	$5,100.00	Jan-22	BMC Executive Director Services	1		Feb-22	
CHG	20220103	$20,495.00	Jan-22	Annual Report Preparations	6	Mar-22		
CHG	20220104	$1,319.40	Jan-22	Groundwater Monitoring	5	Mar-22		
CHG	20220105	$2,327.00	Jan-22	Rating Curve Development	11	Mar-22		
CHG	20220204	$15,400.00	Feb-22	Annual Report Preparations	6	Mar-22		
CHG	20220205	$320.00	Feb-22	Technical Support - Data Request Response	4			
ConfluenceES	1018	$5,700.00	Feb-22	BMC Executive Director Services	1		Mar-22	
	2022 Total	**$64,762.20**						To be approved

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

Agenda Item 5b: Minutes of the Meeting of February 16, 2022

The following is a summary of the actions taken at the Basin Management Committee Board of Directors Meeting. The official record for the meeting is the recording that can be found at: https://slo-span.org/static/meetings-LOBMC.php (Due to a technical malfunction only a portion of the Meeting was recorded)

Agenda Item	Discussion or Action
1. Call to Order	Chairperson Ochylski called the meeting to order at approximately 1:30 pm.
2. Roll Call	Daniel Heimel, Executive Director, called roll to begin the meeting. Chairperson Marshall Ochylski, Director Charlie Cote, Director Bruce Gibson and Director Mark Zimmer were present.
3. Resolution Authorizing Continued Remote Teleconferencing BMC Meetings	**Recommendation:** Staff recommends that the BMC: 1) adopt a resolution authorizing the BMC to continue remote teleconferencing of public meetings based on findings that COVID-19 remains a serious risk to public health and safety; or 2) provide alternate direction to staff. **Public Comment** Linde Owen Patrick McGibney **Board Action** Adopt the resolution authorizing the BMC to continue remote teleconferencing of public meetings based on findings that COVID-19 remains a serious risk to public health and safety. **Motion:** Director Cote **Second**: Director Gibson **Ayes: Director Cote, Director Gibson, Director Zimmer, Chairperson Ochylski** **Nays: None** **Abstain: None** **Absent: None**
9a. Appointment of BMC Officers for Calendar Year 2022	**Recommendation:** Staff recommends that the BMC review the existing officer positions and appoint officers for CY 2022 or provide alternative direction to staff. **Public Comment** Patrick McGibney **Board Action** The BMC voted to retain the 2021 officer positions for Calendar Year 2022. **Motion:** Director Gibson **Second**: Director Zimmer **Ayes: Director Cote, Director Gibson, Director Zimmer, Chairperson Ochylski** **Nays: None** **Abstain: None** **Absent: None**
4. Board Member Comments	Director Gibson introduced Blaine Reely as the County's Groundwater Sustainability Director
5. Special Presentation	None
6. Consent Agenda **6a. 2021 Budget Update and**	**Recommendation:** Review and approved items on the Consent Agenda. **6a. Public Comment**

Invoice Register **6b. 2022 Budget Update and Invoice Register** **6c. Approval of Minutes from December 15, 2021 BMC Meeting**	Linde Owen Keith Wimer **<u>6a, 6b & 6c. Board Action</u>** Approve Consent Agenda **Motion:** Director Gibson **Second**: Director Cote **Ayes: Director Cote, Director Gibson, Director Zimmer, Chairperson Ochylski** **Nays: None** **Abstain: None** **Absent: None**
7. Public Comments on Items Not Appearing on the Agenda	**<u>Public Comment</u>** Jeff Edwards Keith Wimer Linde Owen Patrick McGibney
8. Executive Director's Report	**<u>Public Comment</u>** Jeff Edwards Keith Wimer
9. Action Items	
9b. Update on Status of Basin Plan Infrastructure Projects	**Recommendation:** Receive report and provide input to staff on future direction. **<u>Public Comment</u>** Jeff Edwards Linde Owen Keith Wimer
10. ADJOURNMENT	Meeting adjourned at approximately 2:40 PM. The next regularly scheduled meeting is Wednesday, April 20, 2022 at 1:30 PM.

TO: **Los Osos Basin Management Committee**

FROM: **Dan Heimel, Executive Director**

DATE: **April 20, 2022**

SUBJECT: **Item 7 – Executive Director's Report**

Recommendations

Staff recommends that the Committee receive and file the report and provide staff with any direction for future discussions. Sections of the Executive Director's Report that have been updated or significantly changed from the previous meeting's version are underlined.

Discussion

This report was prepared to summarize administrative matters not covered in other agenda items and to provide a general update on staff activities.

Funding and Financing Programs to Support Basin Plan Implementation

Prop 1 GWGP: The Prop 1 GWGP Round 3 solicitation was released on July 6th, 2021 with Concept Proposals due September 7th, 2021. However, as indicated in the January 2018 BMC meeting, the State Board confirmed that sea water intrusion mitigation projects under Program C are eligible for low interest loans but are not currently eligible for grants under the Proposition 1 Groundwater Grant Program (GWGP). New wells in the upper and lower aquifer are viewed as aquifer management, not aquifer clean-up as defined by the State, therefore we will need to look for future funding rounds and other opportunities. Aquifer clean-up projects (e.g. Community Nitrate Facility, Upper Aquifer Capture and Treatment) could be considered for pursuing grant funding through this program. Unfortunately, this is the 3rd and last round for this Program and they are only looking to fund implementation projects (i.e. projects that have design, CEQA and other planning components completed and are ready for construction), not planning projects.

IRWM: The Program A upper aquifer well at 8th Street was submitted by Los Osos CSD to the local IRWM process in 2019 as part of the Round 1, Prop 1 Implementation Grant cycle and was subsequently selected to be a part of the application for the current funding opportunity. The application for this grant was submitted in December 2019 and the Project was included in the Department of Water Resource's July 2020 Final Funding Award List for the full grant request ($238,000). Prop 1, Round 2 Implementation grant cycle has been initiated and the Call for Projects opened on April 7th, 2022 and closes April 28th, 2022. This grant program offers an opportunity to obtain grant funds for implementation or decision support tool projects. The scoring for this program favors "shovel ready" or

projects that are close to being ready for construction (i.e. environmental, permitting and other planning phases complete).

Prop 1 SWGP: The concept of urban storm water recovery at 8th and El Moro was ranked in the County Stormwater Resource Plan. The Project is labeled as "Capture and Reuse of Storm Water" and listed as a Los Osos Community Services District project. The Stormwater Resource Plan can be found here: https://www.slocounty.ca.gov/Departments/Public-Works/Committees-Programs/Stormwater-Resource-Plan.aspx. The Project is additionally described in the following locations:

- It is **described** here in our SWRP Appendix 4B under "Capture and Reuse of Storm Water" at 9th and El Morro: https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Stormwater-Resource-Plan/Documents/SWRP-Appendix-4-B-Identified-Project-and-Program-D.pdf

- It is **ranked** here on our SWRP website on the **SWRP Project List** link under "Capture and Reuse of Storm Water": https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Stormwater-Resource-Plan/Documents/SWRP-Program-Master-Project-Info-2020-04-16.pdf

- It is also on the **IRWM Project list** under "Capture and Reuse of Storm Water": https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Integrated-Regional-Water-Management-(IRWM)/IRWM-Plan/2019-IRWM-Plan/Appendices/App_F_Project-Lists.pdf

Grant funding may be available through the Prop 1 Storm Water Grant Program (SWGP). However, the application period for Round 2 of SWGP funding has closed. Information about the Storm Water Grant Program can be found here:
https://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/prop1/

WRFP: The State Water Resource Control Board (SWRCB) increased the amount for Water Recycled Program Planning (WRFP) grants from $75k to $150k. This could provide a grant funding opportunity to advance Basin Plan initiatives, with a reduced cost to the community of Los Osos, through preparation of a Recycled Water Facilities Planning Study (RWFPS). Potential scope items for the RWFPS could include:

- Transient Groundwater Model Development
- Soil Aquifer Treatment (SAT) Assessment
- Broderson/Creek Discharge Scenario Analysis
- Stormwater and Perched Water Recovery Project – Feasibility Study
- Adaptive Management Groundwater Modeling
- RWFPS Report Development

Recent communication with the SWRCB Representatives confirmed that this funding program is still fully funded and WRFP grants are available. On 2/11/2022 the CSD submitted an application for a WRFP

grant to develop a transient model and analyze recycled water and supplemental water projects to improve the sustainability of the Los Osos Basin (WRFP Study) and is still waiting for notification.

Status of BMC Initiatives

Sustainable Yield: At its October 27th, 2021 Meeting, the BMC unanimously approved a Sustainable Yield estimate of 2,380 AFY for Calendar Year 2022 and these actions will be documented in the 2021 Annual Report.

Lower Aquifer Transducer Installation: In March, Cleath-Harris Geologists (CHG) initiated requests for permission to access and install transducers in several County monitoring wells, a private well, and a purveyor well. The purveyor well (LA 9) was equipped with a transducer. Due to the uncertainty in accessing County wells, two additional purveyor monitoring wells (LA 40 and LA41) were equipped with transducers. Permission was subsequently received to access County wells, and four County monitoring wells have been equipped with transducers (LA11, LA14, LA16, and LA19). This completes the planned transducer expansion program, with 7 added units.

Basin Metric Evaluation: Analysis of potential modifications to the Basin Metric's is currently on hold. Proposed modifications to the metrics were provided to BMC Party Staff for review. However, BMC Party Staff requested that potential improvements to the existing BMC Monitoring Program (i.e. modifications to an existing wells or a new monitoring well) be evaluated prior to modifying the Basin Metrics. Recommendations regarding potential improvements to the Basin Monitoring Network will be brought to the BMC at a future meeting, followed by potential modifications to the Basin Metrics.

Recycled Water Beneficial Use Evaluation: This effort is currently on hold and is anticipated to be included in the Water Recycling Funding Program Planning Grant initiative.

Transient Groundwater Model: At its October 27th, 2021 Meeting, the BMC authorized the preparation of a Water Recycling Funding Program Grant Application and to request access to the $150,000 of funding that the County budgeted for a transient groundwater model for Los Osos. The Los Osos CSD will be the lead agency for the grant on behalf of the BMC. The grant application was submitted to the SWRCB by Los Osos CSD on 2/11/2022 for $150k in grant funds and the County approved providing $150k to the Los Osos CSD for a Transient Model for the Los Osos Basin. After receiving approval from the SWRCB, the Los Osos CSD will solicit proposals from consulting firms through an RFP process to procure the necessary services to develop the model and complete the WRFP Study.

Wellhead Survey: At its October 27th, 2021 Meeting, the BMC authorized Twin Cities Surveying to survey additional wells in Los Osos Basin and for BMC Staff to request that the County survey the wells in their monitoring program. Both Twin Cities Surveying and the County completed their wellhead surveys in November and December. BMC monitoring network wellhead elevations are now up to date.

Lower Aquifer Monitoring Evaluation: At its October 27th, 2021 Meeting, the BMC authorized CHG to evaluate the feasibility and cost of modifying existing wells or construction a new monitoring well(s) to improve monitoring of Zone E water quality. CHG will be providing BMC Party Staff with recommendations for modifying wells to improve the BMC Monitoring Program and these recommendations will be brought to the BMC at a future meeting. BMC Party Staff evaluated the potential to fund a new monitoring well in 2022, but there is not sufficient budget. BMC Party Staff will target including a new monitoring well in the Calendar Year 2023 Budget.

Status of Basin Plan Implementation and Funding Plans

The BMC has requested an integrated funding plan for project implementation and BMC monitoring and administration. BMC Staff and BMC Party Staff have formed a Funding and Organizational Working Group to identify and evaluate potential future funding and organization structures for the BMC and implementation of the Basin Plan. Consistent with the Basin Plan, the Working Group is identifying and evaluating funding and organizational structures that will provide a long-term mechanism for funding BMC Administration and Basin Plan Implementation costs and that allocate costs equitably amongst all who benefit from the Basin's water resources.

The Working Group reviewed previously completed analysis on BMC funding and organization structures, documenting the different alternatives and identifying data/information gaps that may require outside technical support. At its October 27th, 2021 Meeting, the BMC approved a proposal from SCI Consulting Group to provide an updated funding options analysis and assessment evaluation. SCI has prepared a draft report, that includes their evaluation of funding alternatives and findings from the funding model, that is being reviewed by BMC Party Staff. SCI will be presenting their findings for funding for water resource management and Basin Plan implementation in the Los Osos Basin to BMC at a future meeting.

JPA Formation: Staff level discussions continue to focus on the need for, and benefits of, forming a JPA, see table below, to assist with implementation of the Basin Plan.

Table 1. JPA Formation Considerations

Pros	**Cons**
• Common ownership of basin assets	• Complexity and community perception
• Ability to contract for services as an entity	• Potential for difficulty in formal proceedings - less nimble
• GSWC can participate as a director	• More difficult to exit/change if needed
• Could cover entire limits of basin for funding	
• If carefully done, incremental costs could be limited to insurance and up-front legal expenses	
• Ability to carry-over funds from one budget year to another	

As indicated in previous meetings, it was determined that GSWC could serve as an appointed JPA director without forming a separate Mutual Water Company entity, which would simplify the process.

Discussions with BMC Party Staff indicate that the BMC Parties would like to execute the Implementation Plan initiative to first develop a roadmap for the BMC and then evaluate the potential formation of a JPA or other governance structure once there is a more defined plan for future BMC initiatives.

BMC Legal Counsel – At the December 15, 2021 BMC Meeting, the BMC included in the authorization of the Calendar Year 2022 Budget $20,000 for Legal Counsel Contingency to be included in Executive Director's Budget. The BMC additionally authorized the Executive Director to utilize up to $5,000 before requiring BMC approval and for the Executive Director to provide updates on legal counsel spending in the Executive Director's Report. A draft RFP has been prepared and is included in this agenda packet for BMC consideration and approval.

Program B Implementation Process and Funding: The existing nitrate removal facility owned by GSWC is intended to serve existing development, so it is likely that a Program B facility intended for future development would be jointly owned by either a JPA or by one of the public agencies.

- Likely next steps for the implementation of Program B projects include:
    - Technical Studies to validate and update cost estimates
    - Siting Studies to identify project locations
    - AB 1600 analysis to evaluate funding options relative to future development in coordination with the Los Osos Community Plan
    - Environmental Review (CEQA)
    - Land Use Permitting (e.g. Coastal Development Permits, etc.)

Land Use Planning Process Update

Guide to Planning Information for Development in Los Osos:

This website is intended to provide planning information outlining what type of development is currently allowed within Los Osos: Los Osos - County of San Luis Obispo (ca.gov).

Topics covered include but are not limited to:

- Which types of permit applications are currently being accepted for processing
- Status of the building moratorium and waitlist for undeveloped parcels in the sewer service area (still in place)
- Status of the Communitywide Habitat Conservation Plan

Los Osos Retrofit-to-Build Program (Title 19 Water Offset Requirement) Update:

Maddaus Water Management Inc. is preparing a study to update water usage estimates for urban and rural residences sourcing water from the Los Osos Groundwater Basin, propose new water conservation

measures for the retrofit-to-build program, and estimate remaining water savings potential for the community. They are currently reviewing provided data. Scheduling updates will be posted at: Los Osos Water Offset Study - County of San Luis Obispo (ca.gov).

Los Osos Community Plan:

The Los Osos Community Plan is being reviewed by the California Coastal Commission and a hearing date has not yet been scheduled. In the meantime, the County is meeting with BMC staff to discuss potential policy changes considering ongoing basin monitoring and Basin Plan program implementation efforts. On December 15, 2020, the County Board of Supervisors adopted the Los Osos Community Plan ("LOCP") update and Final Environmental Impact Report ("FEIR"). The LOCP policies are still subject to change based on California Coastal Commission review. The LOCP and FEIR considered by the Board on December 15 are available at: Los Osos Community Plan Update - County of San Luis Obispo (ca.gov).

Background

The Board authorized preparation of this update on December 11, 2012. A series of community outreach meetings to unveil the Community Plan were conducted in the Spring of 2015. The plan was prepared to be consistent and coordinated with the draft groundwater basin management plan and the draft Habitat Conservation Plan ("HCP"). The draft Environmental Impact Report was released on September 12, 2019; comments were due December 11, 2019. A Community Meeting on the Draft Environmental Impact Report for the LOCP, HCP, and associated Environmental Documents was held on October 28, 2019. The Final Environmental Impact Report and Public Hearing Draft were released on June 8, 2020. The Planning Commission held hearings on July 9, 2020, August 13, 2020, and October 8, 2020. At the October 8, 2020 hearing, the Planning Commission recommended approval of the Plan to the Board of Supervisors.

Accessory Dwelling Unit (ADU) Ordinance:

On May 17, 2022, the County Board of Supervisors will consider accepting the California Coastal Commission's suggested modifications to the Coastal ADU Ordinance, including not allowing ADUs within the Los Osos Groundwater Basin boundary and/or within the Los Osos Groundwater Basin Plan Area. Coastal's suggested modifications approved at their February 11, 2022 meeting are available at: https://www.coastal.ca.gov/meetings/agenda/#/2022/2 (Agenda Item # 16a).

Los Osos Vacation Rental Ordinance:

On June 7, 2022, the County Board of Supervisors will consider accepting the California Coastal Commission's suggested modifications to the Los Osos Vacation Rental Ordinance, including requiring hosts post signage encouraging water conservation. Coastal's suggested modifications approved at their February 11, 2022 meeting are available at: https://www.coastal.ca.gov/meetings/agenda/#/2022/2 (Agenda Item # 16b).

Los Osos Wastewater Project Flow and Connection Update

The following table summarizes flows from the LOWRF based on the available data. Cells highlighted in yellow indicate data that was not available at the time the Executive Director's Report was developed.

LOWRF Wastewater and Recycled Water Flows

Year	Month	Influent	Broderson	Bayridge	Sea Pines	Giaco-mazzi	Construction Water	Ag Users	Discharge/ Recycled Water Delivery Total (AF)
2022	Jan	55	53	1.5	1.5	0.0	0.0	0.1	56
2022	Feb	49	39	1.5	6.9	0.0	0.0	0.2	48
2022	Mar	54	37	1.8	4.8	0.0	0.0	0.2	44
2022	Apr								
2022	May								
2022	Jun								
2022	Jul								
2022	Aug								
2022	Sept								
2022	Oct								
2022	Nov								
2022	Dec								
Total									

Enforcement: A list of properties that were not connected were transferred to County Code Enforcement and Notice of Violations were issued last year in Feb. 2019. That list was about 70 properties. As of 5/12/2021, the sewer service area has a 99.4% connection status with a total of 36 properties not yet connected. Of those, one is not required to connect because there is no structure (demolished), 18 have expired building permits, and the rest have an open Code Enforcement case.

The County has assigned staff in code enforcement to Los Osos. Expired permits did not receive a Code Enforcement case because those properties have their own noticing process through the Building Department which, if not corrected, could result in a Notice of Violation.

Recycled Water Connections: The County approved $350,000 in funding from the American Rescue Plan Act of 2021 for connecting new users to the LOWRF Recycled Water System. Additional funding was approved for improvements at the LOWRF and the Broderson Leach field.

Water Conservation Update

Rebate Update: Average indoor water usage for 2019 was estimated to be 40 gpd per person and remains at that number currently.

The Sustainable Groundwater Management Act (SGMA)

SGMA Overview: SGMA took effect on January 1, 2015.[1] SGMA provides new authorities to local agencies with water supply, water management or land use responsibilities and requires various actions be taken in order to achieve sustainable groundwater management in high and medium priority groundwater basins. Los Osos Valley Groundwater Basin (Los Osos Basin) was subject to SGMA based on the 2014 Basin Prioritization by the California Department of Water Resources (DWR) that listed the Los Osos Basin as high priority and in critical conditions of overdraft.[2]

Basin Prioritization: On December 18, 2019, DWR released the SGMA 2019 Basin Prioritizations. Basins or subbasins reassess to low or very low priority basins or subbasins are not subject to SGMA regulations. A summary of DWR's Final SGMA Prioritizations for the Los Osos Area Subbasin and Warden Creek Subbasin are listed below:

- Los Osos Area Subbasin is listed as **very low** priority for SGMA[3] and in critical conditions of overdraft[4]
- SGMA does not apply to the portions of Los Osos Basin that are adjudicated provided that certain requirements are met (Water Code §10720.8).
- Warden Creek Subbasin is listed as **very low** priority for SGMA[3]

For more information on DWR's basin boundary modification and prioritization process, please visit: https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization

Additional Attachments:

1. Updated Status of Basin Plan Programs

[1] On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package, composed of AB 1739 (Dickinson), SB 1168 (Pavley), and SB 1319 (Pavley), collectively known as SGMA

[2] SGMA mandates that all groundwater basins identified by DWR as high- or medium-priority by January 31, 2015, must have groundwater sustainability agencies established by June 30, 2017. The act also requires that all high- and medium-priority basins classified as being subject to critical conditions of overdraft in Bulletin 118, as of January 1, 2017, be covered by groundwater sustainability plans, or their equivalent, by January 31, 2020. Groundwater sustainability plans, or their equivalent, must be established for all other high- and medium-priority basins by January 31, 2022.

[3] As noted by DWR, the priority for the subbasin has been set to very low (0 total priority points) as a result of conditions being met under sub-component C of the Draft SGMA 2019 Basin Prioritizations.

[4] Critical conditions of overdraft have been identified in 21 groundwater basins as described in Bulletin 118 (Water Code Section 12924). Bulletin 118 (updates 2003) defines a groundwater basin subject to condition of critical overdraft as: "A basin is subject to critical conditions of overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts."

Update on Status of Basin Plan Infrastructure Projects

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program A – Shift groundwater production from Lower Aquifer to Upper Aquifer	Water Systems Interconnection	LOCSD/ GSWC	NA	NA	NA	NA	**Completed**
	Upper Aquifer Well (8th Street)	LOCSD	NA	Fully Funded	NA	$250,000	Electrical component supply chain issues continue to delay the completion of the project. The piping and other improvements to the wellhead are now complete. Completion date of the project is yet to be determined
	South Bay Well Nitrate Removal	LOCSD	NA	NA	NA	NA	**Completed**
	Palisades Well Modifications	LOCSD	NA	NA	NA	NA	**Completed**
	Blending Project (Skyline Well)	GSWC	NA	NA	NA	NA	**Completed**
	Water Meters	S&T	NA	NA	NA	NA	**Completed**
Program B - Shift groundwater production from Lower Aquifer to Upper Aquifer	LOCSD Wells (Upper Aquifer)	LOCSD		Not Funded	TBD	BMP: $2.7 mil	Project not initiated
	GSWC Wells (Upper Aquifer)	GSWC		Not Funded	TBD	BMP: $3.2 mil	Project not initiated
	Community Nitrate Removal Facility	LOCSD/GSWC/S&T	TBD	Partial, GSWC portion funded	TBD	GSWC: $1.23 mil	GSWC's Program A Blending Project might be capable of expanding to be the first phase of the Program B Community Nitrate Removal Facility.
Program C - Shift production within the Lower Aquifer from the Western Area to the Central Area of the Basin	Expansion Well No. 1 (Los Olivos)	GSWC	NA	NA	NA	NA	**Completed**
	Expansion Well No. 2 (Lower Aquifer)	LOCSD		LOCSD	TBD	BMP: $2.1 mil	The Minor Use Permit application was approved by the County of March 4th. Bid documents for the drilling phase were released on March 4th. One bid was received that was significantly higher than the Engineer's Estimate which was rejected. LOCSD rebid the project on April 8th.
	Expansion Well 3 (Lower Aquifer) and LOVR Water Main Upgrade	GSWC/LOCSD		Cooperative Funding	TBD	BMP: $1.6 mil	This project has been deferred under Adaptive Management.
	LOVR Water Main Upgrade	GSWC		May be deferred	TBD	BMP: $1.53 mil	Project may not be required, depending on the pumping capacity of the drilled Program C wells. It may be deferred to Program D.
	S&T/GSWC Interconnection	S&T/ GSWC		Pending	TBD	BMP: $30,000	Currently on hold, pending the completion of S&T's water meter cellular updates.
Program D - Shift production within the Lower Aquifer from the Western Area to the Eastern Area of the Basin							Currently being considered for deferment through Adaptative Management. BMC to review on an annual or semi-annual basis.
Program M – Groundwater Monitoring Plan	New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	NA	NA	NA	NA	**Completed**

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program U - Urban Water Reinvestment Program	Creek Discharge Program	All Parties				TBD	These activities are currently on hold.
	8th and El Moro Urban Storm Water Recovery Project	All Parties				TBD	These activities are currently on hold.

TO: **Los Osos Basin Management Committee**

FROM: **Daniel Heimel, Executive Director**

DATE: **April 20, 2022**

SUBJECT: **Item 8a – Presentation of Draft 2021 Groundwater Production Estimates, Recycled Water Deliveries and Basin Metrics**

Recommendations

Receive an update on preliminary findings from 2021 Annual Report and provide input to staff on future direction.

Discussion

Section 5.8.3 of the Final Judgment requires that the preparation of an Annual Report by June 30 of each year. The BMC retained Cleath Harris Geologists (CHG) to prepare the sixth Annual Report for calendar year 2021. An excerpt of the preliminary work that CHG is preparing is attached, and a staff summary will be provided at the meeting. The Draft Annual Report is anticipated to be released soon for BMC and Public Review.

Financial Considerations

Budget items 5 and 6 in the adopted calendar year 2022 budget address monitoring and preparation of the annual report. At this time, no budget adjustments are recommended.

DRAFT Table 13. Municipal Groundwater Production (2013-2021)				
Year	**LOCSD**	**GSWC**	**S&T**	**Total**
	Acre-Feet[1]			
2013	726	689	55	1,470
2014	634	564	48	1,246
2015	506	469	32	1,007
2016	519	453	31	1,003
2017	568	450	32	1,050
2018	522	464	32	1,018
2019	506	454	31	991
2020	527	502	34	1,063
2021	503	491	32	1,026

Note: [1]Metered production

DRAFT Table 14. Estimated Basin Groundwater Production (2013-2021)					
Year	**Purveyors**	**Domestic**	**Community**	**Agriculture**	**Total**
	Acre-Feet[1]				
2013	1,470	200	140	750	2,560
2014	1,246	220	130	800	2,400
2015	1,007	220	140	800	2,170
2016	1,003	220	140	800	2,160
2017	1,050	220	130	670	2,070
2018	1,018	220	120	670	2,030
2019	991	220	60	630	1,900
2020	1,063	220	80	650	2,010
2021	1,026	220	130	620	2,000

Note: [1]All figures except Purveyors rounded to the nearest 10 acre-feet.

DRAFT METRIC SUMMARY

Metric	LOBP Goal	Calculated Value from 2021 Data
Basin Yield Metric	80 or less	72
Water Level Metric	8 feet above mean sea level or higher	2.1 feet above mean sea level
Chloride Metric	100 mg/L or lower	202 mg/L
Nitrate Metric	10 mg/L or lower	17 mg/L (NO_3-N)

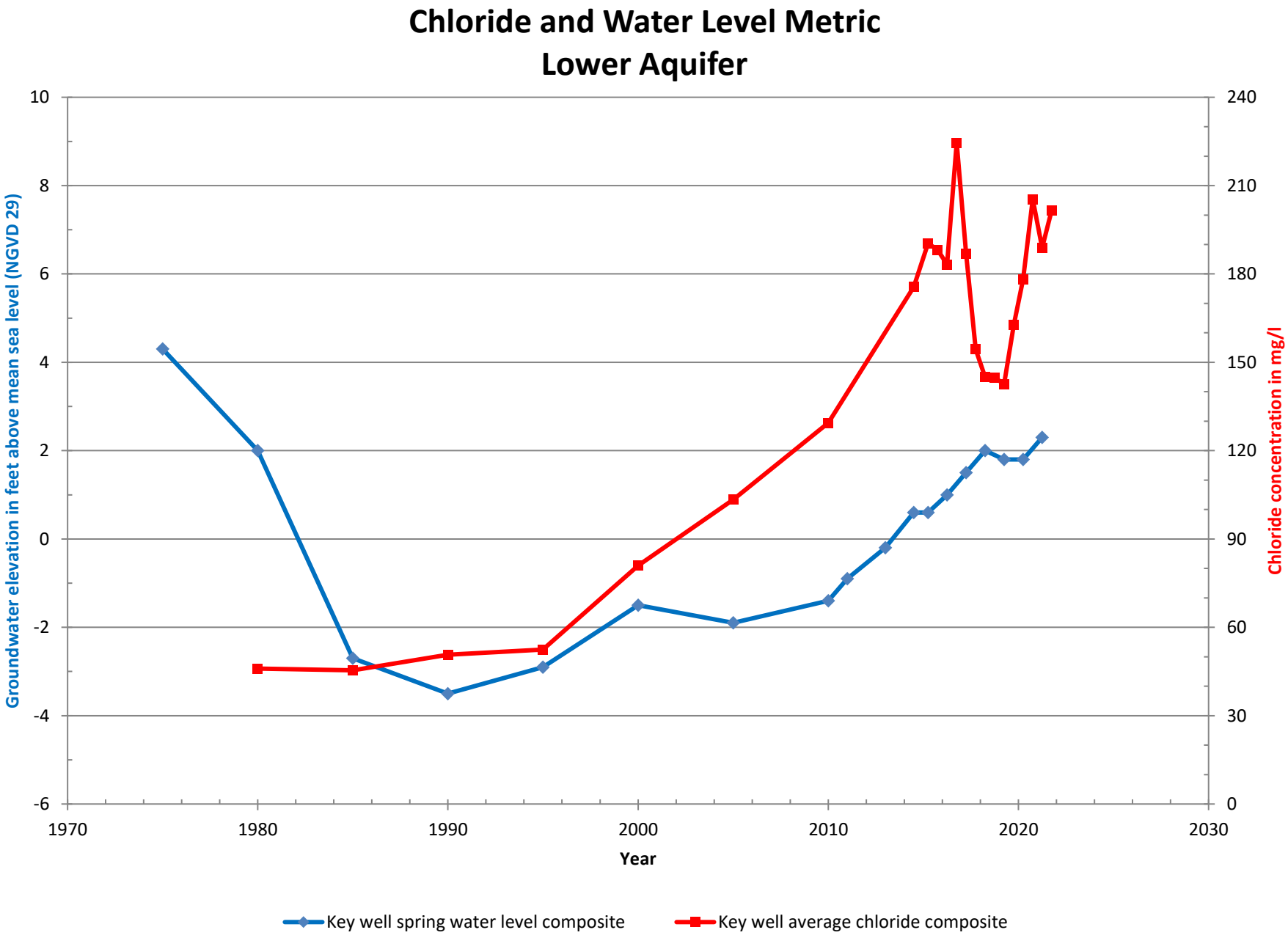
DRAFT Table 25. Planned Recycled Water Uses in the Urban Water Reinvestment Program		
Potential Use	**LOBP Planned Annual Volume (AFY)**	**Actual Annual Volume in 2021 (AFY)**
Broderson Leach Fields	448	474.6
Bayridge Estates Leach Fields	33	20.6
Urban Reuse	63	0
Sea Pines Golf Course	40	16.5
Los Osos Valley Memorial Park	50	0
Agricultural Reuse	146	1.7
Construction Water	0	0.5
Total	**780**	**514**

DRAFT Table 18. Groundwater in Storage Spring and Fall 2021 (<250 mg/L Chloride)						
Basin Area	**Aquifer**	**Zone**	**Spring 2021**		**Fall 2021**	
			Total	**Above Sea Level**	**Total**	**Above Sea Level**
			ACRE-FEET			
Western and Central	Perched	A, B	5,800	5,800	5,500	5,500
	Upper	C	28,800	7,000	28,000	6,100
Western	Lower[1]	D[2]	15,700	<10	15,300	<10
Central	Lower[1]	D, E	55,100	<10	55,100	<10
Eastern	Alluvial and Lower	Alluvial, D, E	19,100	4,600	18,200	3,700
TOTAL			124,500	17,400	122,100	15,300

NOTES: [1]Includes fixed and confined storage.

[2]Western Area Zone E not included due to chloride>250 mg/L.

Fall 2021 DRAFT



Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/l	mg/l	umhos/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30S/10E-11A2	Sand Spit #1 East	LA2	D	3/14/2005	180	4600	16000	7.3	8900	5400	ND	430	770	640	20	1300
				10/21/2015	150	6640	17700	7.4	13100	6300	ND	740	1030	990	31	1560
				11/5/2020	220	6700	18000	7.7	15300	**5890**	ND	777	1140	936	38	1560
30S/10E-12J1	MBO5 DWR Obs.	LA11	E	2/14/2005	350	370	1300	8.1	840	77	ND	190	51	58	6.1	110
				11/20/2009	300	360	1150	7.5	732	83	ND	190	51	58	4.4	95
				7/24/2014	360	489	1290	7.7	780	105	ND	212	69	77	5	88
				4/22/2015	360	475	1290	7.8	810	112	ND	189	65	76	5	88
				10/1/2015	250	486	1280	7.3	840	117	ND	188	68	77	4	85
				4/20/2016	330	524	1370	n/a	840	151	ND	193	73	40	5	83
				10/10/2016	350	497	1370	7.1	930	173	ND	189	69	79	4	81
				4/11/2017	350	541	1380	7.5	880	167	ND	186	75	86	4	81
				10/4/2017	300	543	1370	7	850	162	ND	191	76	86	5	90
				4/10/2018	350	595	1390	7.6	820	173	ND	192	85	93	5	97
				10/2/2018	350	497	1340	7.4	870	160	ND	160	69	79	3	87
				4/9/2019	350	539	1430	7.4	860	196	ND	189	76	85	4	85
				10/2/2019	250	290	1520	7.6	1000	187	ND	189	80	90	5	91
				4/14/2020	350	667	1580	7	950	222	ND	187	81	113	5	83
				10/1/2020	350	763	1650	7.1	1040	242	ND	183	85	134	5	88
				4/5/2021	345	612	1630	7.6	1050	256	ND	192	88	96	5	91
				10/6/2021	340	569	1710	7.3	1020	**258**	ND	176	83	88	5	82
30S/10E-13Bb	Lupine Zone D	LA41	D	11/7/2019	210	312	1310	7.7	760	136	3.1	188	69	34	4	140
				4/8/2020	310	204	943	7.1	560	68	0.3	109	44	23	2	101
				10/8/2020	340	263	920	7.1	490	52	0.1	89.4	51	33	2	72
				4/14/2021	333	289	855	7.9	505	66	ND	86	53	38	2	60
				10/11/2021	340	309	812	7.2	460	**48**	ND	80	58	40	2	64
30S/10E-13Ba	Lupine Zone E	LA40	E	11/6/2019	210	2090	5330	7	4750	1460	1.3	224	388	272	6	182
				4/7/2020	240	3300	7360	7.6	6340	2190	0.3	202	569	458	7	203
				10/7/2020	270	4100	8220	6.9	7930	2220	ND	192	720	560	8	217
				4/15/2021	274	3760	8590	7.4	6760	2510	ND	217	558	576	7	210
				10/13/2021	270	3540	8930	7.4	7430	**2910**	ND	201	544	530	6	190
30S/10E-13J1* Highlighted chloride values have been adjusted for wellbore leakage	GSWC Rosina	LA10	D,E	12/20/2004	72	230	720	7.1	410	150	1.6	14	38	33	1.4	29
				1/14/2010	35	260	778	6	435	200	1.6	13	41	38	1.5	33
				7/24/2014	80	418	1200	7.3	910	303	1.7	16	67	61	2	39
				4/22/2015	80	431	1230	7.1	750	331	1.9	20	69	63	2	39
				10/5/2015	70	460	1280	7	950	329	1.7	19	74	67	2	41
				4/26/2016	80	412	1170	7.1	840	299	1.8	18	66	60	2	37
				10/12/2016	60	509	1430	6.8	1100	389	1.8	26.7	82	74	2	44
				4/10/2017	80	327	957	6.9	720	300	2.6	14.7	52	48	2	35
				10/12/2017	80	245	702	6.9	510	220	3.4	12.5	39	36	2	33
				4/24/2018	70	188	620	7.4	400	190	4.3	12.3	29	28	1	29
				10/9/2018	70	265	730	7.1	450	210	3.2	12.7	42	39	2	34
				4/15/2019	80	251	744	7	600	174	1.9	10.4	38	38	2	31
				10/14/2019	80	332	961	7.1	830	229	2	12.7	54	48	1	33
				4/21/2020	80	353	1310	6.4	970	250	2.1	14.2	59	50	2	32
				10/7/2020	70	183	618	7.6	430	310	4.6	11.3	29	27	1	33
				4/6/2021	81	405	1110	7.6	815	258	2.1	16.1	66	58	2	36
				10/8/2021	80	413	1180	7.2	790	**289**	2.1	16.8	65	61	2	37

Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/l	mg/l	umhos/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30S/10E-13M2 4/1/2021 sample results show Upper Aquifer influence due to reduced pumping	Howard East	LA31	C,D	11/22/2004	51	810	2900	7.3	1500	810	0.5	140	60	120	4.7	210
				12/9/2009	55	1100	3740	7.1	2170	1100	0.5	220	160	160	4.8	370
				8/4/2014	60	757	3340	7.1	2450	990	0.6	178	117	113	5	382
				4/21/2015	60	739	3430	7.3	1930	950	0.6	178	117	113	5	382
				10/6/2015	30	756	3370	7.1	2140	960	0.5	185	115	114	5	342
				4/20/2016	50	726	3520	7.2	2190	941	0.7	179	113	108	5	400
				10/19/2016	70	722	3420	7.4	2190	943	0.6	182	113	107	4	398
				4/17/2017	60	733	3380	6.8	2060	907	0.6	178	114	109	4	413
				10/5/2017	60	738	3350	7.5	2190	960	0.7	160	116	109	5	411
				4/24/2018	70	664	3370	7.2	2020	946	0.6	2.8	103	99	4	367
				10/17/2018	60	740	3400	7.3	2180	834	0.6	153	115	110	5	414
				4/3/2019	70	640	3290	7.8	2010	940	0.6	179	103	93	4	341
				10/3/2019	70	574	3120	7.4	2120	827	0.7	169	90	85	4	340
				4/9/2020	70	519	2970	7.8	1740	738	0.6	152	86	74	4	258
				10/1/2020	70	774	3330	8	2080	844	0.7	169	94	131	5	495
				4/1/2021	218	187	1010	8.3	581	161	2.9	47	31	27	20	113
				11/4/2021	70	509	2780	7.9	1700	**629**	0.6	124	77	77	4	305
30S/10E-13N	S&T #5	LA8	D	11/23/2004	42	80	390	6.9	200	67	5.9	9.2	13	12	1.7	38
				11/19/2009	41	89	386	6.8	267	73	6.1	11	15	13	1.4	38
				7/24/2014	50	100	438	7.4	270	76	7	10	17	14	2	38
				4/21/2015	50	98	445	6.9	280	77	7.7	11	16	14	2	38
				10/6/2015	40	98	422	7.2	310	75	6.8	10	16	14	1	38
				4/20/2016	20	97.5	446	7	320	76	7.2	12	16	14	1	38
				10/13/2016	50	104	470	8	320	79	7.2	12	17	15	1	40
				4/11/2017	50	100	434	7.4	270	77	7.3	12	17	14	1	38
				10/2/2017	30	95	438	7.2	290	78	7.6	13	15	14	1	36
				4/11/2018	60	104	440	7	260	79	7.9	14	17	15	1	39
				10/3/2018	60	107	430	6.5	340	66	6.7	13	18	15	2	40
				4/3/2019	50	100	434	6.3	250	75	7.3	13	17	14	1	36
				10/7/2019	60	95	446	7.6	250	77	7.7	14	15	14	1	37
				4/13/2020	60	104	443	8	300	75	7.4	15	17	15	2	37
				10/1/2020	60	108	464	7.9	300	76	7.5	14	17	16	1	40
				4/6/2021	63	103	438	7.4	302	78	7.8	13	17	15	1.4	38
				10/8/2021	60	108	443	7.8	290	**77**	7.5	13	17	16	2	41
30S/10E-14B2	Sand Spit #3 Deep	LA3	D	3/15/2005	100	3600	30000	8	17000	8500	ND	960	1200	130	34	4300
				10/21/2015	ND	7140	29500	11	24700	10000	ND	530	2830	20	80	4040
30S/10E-24C1	GSWC Cabrillo	LA9	D	12/20/2004	64	130	610	7	310	110	4.5	19	22	19	1.6	50
				11/20/2009	60	150	611	7.1	347	130	4.1	22	23	22	1.6	52
				7/24/2014	40	69	339	7.6	240	46	8.4	6	11	10	1	32
				4/22/2015	70	117	530	7.3	320	95	5.5	16	19	17	2	45
				10/5/2015	50	75	349	7.6	270	50	7.6	7	12	11	1	34
				4/26/2016	70	115	499	7	300	90	5.6	16	18	17	2	44
				10/12/2016	70	111	506	7.1	320	93	5.5	15	18	16	1	44
				4/10/2017	70	111	490	7	310	89	5.7	16	18	16	1	43
				10/12/2017	70	117	484	7	270	89	6	16	19	17	2	46
				4/24/2018	70	115	486	7.8	300	90	6.2	17	18	17	1	43
				10/9/2018	60	135	477	6.9	280	76	5.8	17	21	20	2	50
				4/15/2019	70	112	488	7.1	310	92	5.7	16	17	17	2	45
				10/14/2019	no sample (off-line)											
				4/21/2020	300	75.2	674	6.71	370	37	0.2	28	3	35	2	42
				10/7/2020	60	102	460	7.4	270	75	6.6	13	16	15	1	40
				4/6/2021	63	98.6	443	7.89	287	78	6.8	12	16	15	1	39
				10/8/2021	60	112	490	7.7	280	**86**	6.4	16	17	17	2	44

Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/l	mg/l	umhos/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30S/11E-7Q3	LOCSD 8th St.	LA12	D	11/18/2004	250	270	790	7.5	410	73	ND	39	44	40	2.3	48
				11/19/2009	220	290	782	7.4	465	92	ND	46	46	42	1.9	53
				7/23/2014	290	303	876	7.6	460	91	ND	43	49	44	2	54
				4/21/2015	290	305	897	7.7	500	101	ND	55	48	45	2	59
				10/6/2015	280	298	828	7.4	490	91	ND	46	47	44	2	55
				4/20/2016	190	307	907	7.7	520	91	ND	49	49	45	2	54
				10/11/2016	280	278	827	4.9	490	93	ND	46.2	44	41	2	52
				4/10/2017	300	294	839	7.3	480	91	ND	49.5	47	43	2	54
				10/4/2017	220	305	826	6.5	470	92	ND	45	48	45	2	56
				4/10/2018	300	319	814	7.7	440	93	ND	46.2	52	46	2	56
				10/2/2018	290	283	822	7.3	470	78	ND	50.1	46	41	1	53
				4/9/2019	300	301	844	7.5	480	94	ND	49.7	48	44	2	53
				10/2/2019	290	312	877	8	530	91	ND	50.9	49	46	2	56
				4/16/2020	310	301	883	7.8	500	94	ND	54.7	48	44	2	52
				10/5/2020	300	321	891	7.9	510	89	ND	49.6	51	47	2	57
				4/5/2021	305	297	849	7.7	504	94	ND	54.1	48	43	2	54
				10/6/2021	300	283	874	7.5	510	**95**	ND	55	46	41	2	51
30S/11E-17E8	So. Bay Obs. Middle	LA22	D	1/14/2005	150	150	440	7.5	290	34	2.2	11	24	22	1.4	28
				11/20/2009	120	160	455	7.3	255	42	4.3	12	25	23	1.3	29
				7/23/2014	150	166	500	7.6	270	43	6.3	10	27	24	2	28
				4/21/2015	150	157	481	7.6	270	49	7.1	13	25	23	1	28
				10/1/2015	120	164	475	7.4	290	44	6.6	10	26	24	1	28
				4/19/2016	150	164	476	6.9	290	45	6.9	12	26	24	1	29
				10/13/2016	140	161	521	7.3	290	46	6.9	11.9	25	24	1	29
				4/13/2017	150	164	466	7.3	300	46	6.7	13.2	26	24	1	29
				10/11/2017	150	168	476	7.7	260	47	7.2	14	26	25	1	29
				4/16/2018	150	165	473	6.4	310	47	6.7	14.2	25	25	1	29
				10/10/2018	150	160	471	7.5	250	43	6.1	15	26	23	1	28
				4/10/2019	180	153	466	7.2	290	46	5.8	13.6	25	22	1	28
				10/9/2019	150	155	485	7.3	270	49	7	14.9	24	23	1	28
				4/14/2020	160	164	482	8	280	48	6.3	14.9	26	24	1	27
				10/6/2020	160	181	506	7.5	340	47	6.7	14.7	28	27	1	30
				4/8/2021	159	154	470	7.5	329	46	5.8	12.5	24	23	1	27
				10/19/2021	170	181	480	7.4	310	**41**	5.8	14.9	28	27	1	29
30S/11E-17N10	GSWC So. Bay #1	LA20	C,D,E	Jan 2003	250	--	510	7.1	290	37	ND	21	41	25	1.3	35
				11/20/2009	230	220	638	7.3	357	41	0.5	30	35	33	1.7	37
				7/24/2014	280	232	646	7.7	370	37	0.5	24	37	34	2	41
				4/22/2015	290	234	653	7.4	360	43	0.6	27	36	35	2	42
				10/5/2015	280	227	614	7.2	370	38	0.5	23	35	34	2	41
				4/26/2016	230	227	629	7.1	360	39	0.6	27	35	34	2	40
				10/12/2016	290	221	631	7	370	40	0.6	25.2	34	33	2	40
				4/10/2017	280	227	624	7.2	380	39	0.6	26.7	35	34	2	40
				10/12/2017	260	240	583	6.6	320	41	0.7	27.9	37	36	2	43
				4/24/2018	200	166	515	7.4	330	43	3.2	23.2	27	24	2	31
				10/9/2018	290	273	632	7.2	340	38	0.6	29.2	42	41	3	47
				4/15/2019	200	181	559	7.4	310	42	3.1	21.7	28	27	2	34
				10/14/2019	290	221	626	7.2	380	41	0.7	29	34	33	2	40
				4/21/2020	300	230	705	7	400	50	0.7	26.9	36	34	2	42
				10/7/2020	290	227	654	7.5	350	40	0.7	27	35	34	2	42
				4/6/2021	204	178	529	7.9	329	43	3	21.1	29	26	2	33
				10/7/2021	290	245	633	6.8	340	**40**	0.7	27.8	37	37	2	43

Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/l	mg/l	umhos/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30S/11E-18K8	10th St. Obs. East (Deep)	LA18	E	1/19/2005	260	290	650	7.5	370	33	ND	38	62	33	2.5	28
				11/20/2009	230	220	620	7.5	378	32	ND	40	51	24	1.8	23
				7/24/2014	290	271	647	7.5	380	28	ND	34	56	32	2	27
				4/21/2015	290	265	634	7.7	400	33	ND	39	55	31	2	27
				10/19/2015	230	256	621	7.3	370	29	ND	33	53	30	2	26
				4/20/2016	190	265	700	7.5	390	31	ND	38	55	31	2	26
				10/18/2016	290	256	615	6.8	370	31	ND	35.9	53	30	2	26
				4/12/2017	290	274	616	7.5	450	31	ND	38	57	32	2	27
				10/10/2017	220	271	619	7.8	350	30	ND	35.5	56	32	2	27
				4/17/2018	290	260	625	7.3	390	33	ND	39.9	53	31	2	27
				10/10/2018	290	254	608	7.5	360	31	ND	39.8	54	29	2	26
				4/10/2019	290	245	620	7.6	380	32	ND	37.4	52	28	2	25
				10/9/2019	290	253	647	7.9	390	33	ND	40.5	52	30	2	26
				4/14/2020	290	269	629	7.5	400	33	ND	40.2	55	32	2	26
				10/22/2020	300	247	669	7.5	370	32	ND	38.2	51	29	3	26
				4/12/2021	298	267	621	7.6	389	32	ND	41.2	54	32	2	27
				10/19/2021	300	287	657	7.4	400	**32**	ND	38.4	59	34	2	28
30S/11E-18K9	LOCSD 10th St.	LA32	C,D	May 2002	250	--	550	6.9	320	37	0.2	26	31	32	--	39
				11/20/2009	180	160	539	7.2	307	36	1	27	27	24	1.3	32
				7/23/2014	220	190	546	7.7	300	32	1	20	30	28	1	35
				4/21/2015	190	108	504	7.6	270	38	1.6	20	17	16	1	27
				10/6/2015	50	62	248	7.2	190	31	5.9	3	10	9	ND	21
				4/20/2016	130	121	382	7.5	220	32	3.3	12	19	18	1	27
				10/11/2016	200	168	511	6.6	270	36	1.2	21.5	26	25	1	34
				4/10/2017	190	155	461	7.3	270	35	1.9	19.1	24	23	1	31
				10/9/2017	200	168	493	7.6	270	36	1.4	23.1	26	25	1	33
				4/10/2018	50	75.2	256	7.7	150	35	6.5	28.6	12	11	ND	23
				10/2/2018	210	168	492	7.3	270	36	1.3	22	26	25	ND	33
				4/9/2019	200	172	474	7.6	270	34	1.6	21.5	26	26	1	33
				10/2/2019	200	185	531	7.4	310	36	1.4	24.7	28	28	1	35
				4/16/2020	60	72.7	272	8.1	190	35	6	5.4	11	11	ND	20
				10/6/2020	60	68.6	246	8	180	30	4	4.9	11	10	ND	21
				4/5/2021	143	128	390	7.8	247	34	2.1	15.7	20	19	1	27
				10/6/2021	60	68.6	255	7.7	150	**30**	3.9	5.7	11	10	ND	20
30S/11E-18K	GSWC Los Olivos #5	LA39	D	4/15/2019	290	230	619	8.1	350	38	ND	27.4	33	36	2	41
				10/14/2019	300	225	628	7.2	370	37	ND	28.6	34	34	1	41
				4/21/2020	300	236	674	6.9	370	37	0.2	28.4	37	35	2	42
				10/7/2020	300	227	657	7.4	360	37	ND	28.2	35	34	2	43
				4/6/2021	301	226	629	8.0	382	38	ND	25.8	34	34	2	40
				10/8/2021	300	253	638	7.4	360	**37**	ND	29.3	37	39	2	45

Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/l	mg/l	umhos/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30S/11E-18L2**	LOCSD Palisades	LA15	D,E	11/18/2004	220	330	880	7.3	420	120	ND	31	54	48	2.2	40
				11/19/2009	200	590	1460	7.2	890	360	0.4	39	94	86	2	44
			D	7/23/2014	250	293	783	7.8	390	90	0.4	26	48	42	2	40
				4/29/2015	80	78	348	7.4	230	43	5	10	13	11	ND	30
				10/28/2015	230	288	782	7.4	420	104	0.6	29	46	42	ND	36
				4/27/2016	230	264	796	7.3	450	93	0.9	28	43	38	2	43
				10/11/2016	200	221	694	7	380	91	1.7	25.5	36	32	1	35
				10/5/2017	180	306	768	7.6	400	102	0.7	27	50	44	2	40
				4/10/2018	250	311	767	7.3	420	100	0.8	32.4	52	44	2	40
				10/23/2018	250	288	772	7.7	440	83	0.6	30.7	48	41	1	38
				4/9/2019	250	301	774	7.4	460	102	0.8	29.2	48	44	1	38
				11/14/2019	210	303	806	7.8	430	107	0.7	32.9	49	44	2	39
				4/16/2020	260	299	832	7.7	460	109	0.8	32.5	49	43	2	37
				10/5/2020	250	319	841	7.8	450	109	0.7	29.7	52	46	2	41
				4/6/2021	234	290	780	7.7	444	108	1	27.2	47	42	2	38
				10/6/2021	250	295	856	7.3	490	**107**	0.5	32.8	49	42	2	37

ND = Not Detected

Chloride Metric Wells in Green (13J1 weighted x2); current chloride concentrations in red

*Chloride concentrations at 13J1 can vary seasonally by 100+ mg/l and are affected by well production and borehole leakage, so fluctuations are expected.

**Water from 18L2 affected by wellbore leakage/upper aquifer influence when inactive

Legend and Detection Limits

Constituent	Description	Practical Quantitation Limit*
HCO3	Bicarbonate Alkalinity in mg/L CaCO3	10.0
Total Hardness	Total Hardness in mg/L CaCO3	--
Cond	Electrical Conductance in μmhos/cm	1.0
pH	pH in pH units	--
TDS	Total Dissolved Solids in mg/L	20.0
Cl	Chloride concentration in mg/L	1.0
NO3-N	Nitrate as Nitrogen concentration in mg/L	0.1
SO4	Sulfate concentration in mg/L	2.0
Ca	Calcium concentration in mg/L	1.0
Mg	Magnesium concentration in mg/L	1.0
K	Potassium concentration in mg/L	1.0
Na	Sodium concentration in mg/L	1.0

*where dilution not required

TO: **Los Osos Basin Management Committee**

FROM: **Dan Heimel, Executive Director**

DATE: **April 20, 2022**

SUBJECT: **Item 8b – Third Program C Well Implementation Status**

Recommendations

Consider authorization of use Technical Support/Adaptive Management Services to evaluate re-inclusion of the 3rd Well into Program C or provide alternate direction to staff.

Discussion

The 2015 Basin Plan included three (3) wells in Program C to shift Lower Aquifer Pumping from the western area to the central and eastern areas of the Los Osos Basin (Basin) to reduce the threat of seawater intrusion. On March 20th, 2019, the Basin Management Committee (BMC) received the Los Osos Basin Plan Metric Trends Review and Infrastructure Program C Evaluation Technical Memorandum (CHG, 2019), which recommended the deferral of the 3rd Program. Based on estimates that under the existing population scenario, the 3rd Program C well was not needed to achieve the Basin Yield Metric target of 80 (i.e. where the estimated Basin pumping equals 80% or less than the estimated Sustainable Yield for the Basin), the BMC deferred the 3rd Well from Program C.

In 2021, the BMC updated the methodology for estimating the Sustainable Yield for the Basin to incorporate updated hydrology or rainfall data, characterize the Broderson Mound as being 50% developed and modify the seawater intrusion criteria to limit it at its current extent, see the 10/27/21 BMC Agenda Packet for additional detail. Utilizing the updated methodology, the BMC estimated and unanimously approved a Sustainable Yield estimate of 2,380 Acre-Feet for Calendar Year 2022. While this Sustainable Yield estimate is greater than current estimates of groundwater pumping in the Basin, approximately 2,000 Acre-Feet per Year (AFY), the target for Basin pumping, established during the development of the Basin Plan, is 80% of the Sustainable Yield or 1,904 AFY to account for uncertainty and prevent degradation from seawater intrusion. If estimates of current pumping were applied to the 2022 estimated Sustainable Yield, the Basin Yield Metric would be greater than 80, indicating that pumping is exceeding the target.

To achieve a target ratio of 80 or less between estimated production and the Sustainable Yield estimate, additional water conservation measures, implementation of Basin Plan Programs, enhanced use of recycled water and/or importation of supplemental water supplies are needed under current conditions. Implementation of a 3rd Program C Well could increase the Sustainable Yield and assist the BMC in achieving the target Basin Yield Metric of 80 and improve water supply resiliency for the Los Osos Water Purveyors.

Authorizing use of Technical Support/Adaptive Management Services funds would allow BMC Staff and Cleath-Harris Geologist to develop updated calculations for the increase in the Sustainable Yield that the 2nd and 3rd Program C Well would provide under the new criteria and bring that information back to the BMC for consideration. It is estimated that it would cost approximately $4,500 to perform the Updated Program C Sustainable Yield Analysis. There is approximately $14,000 available in the Technical Support/Adaptive Management Services budget remaining for Calendar Year 2022.

TO: **Los Osos Basin Management Committee**

FROM: **Dan Heimel, Executive Director**

DATE: **April 20, 2022**

SUBJECT: **Item 8c – WRFP Study and Transient Model RFP**

Recommendations

Receive a draft of the WRFP Study and Transient Model RFP and provide direction to staff.

Discussion

As discussed at previous Basin Management Committee (BMC) Meetings, the BMC is pursuing funding for the development of a Transient Groundwater Model and to prepare a Water Recycling Funding Program Facilities Planning Study (WRFP Study). The purpose of the study will be to evaluate recycled water and supplemental supply alternatives to improve the sustainability of the Los Osos Groundwater Basin (Basin).

The Los Osos Community Services District (LOCSD) will be the lead agency for the Study and has applied for $150,000 in grant funding from the State Water Resource Control Board's Water Recycling Funding Program (WRFP). The County of San Luis Obispo has approved entering into a Cost Reimbursement Agreement with the LOCSD to make $150,000 in funding available for the Study to provide the match funding for the WRFP Grant. The BMC will also be contributing $30,000 to hire a Peer Review Hydrogeologist to participate in the development, calibration and utilization of the Transient Model.

Qualified Engineering and Hydrogeology consultants will be solicited utilizing the attached draft RFP for the development of the Transient Model and the WRFP Study.

REQUEST FOR PROPOSAL (RFP)
LOS OSOS COMMUNITY SERVICES DISTRICT
WATER RECYCLING FUNDING PROGRAM FACILITIES PLANNING STUDY

The Los Osos Community Services District (District) has prepared this Request for Proposal (RFP) for the implementation of a Project to develop a Transient Groundwater and prepare a Water Recycling Funding Program Facilities Planning Study (WRFP Study) for the community of Los Osos. The purpose of the study will be to evaluate recycled water and supplemental supply alternatives to improve the sustainability of the Los Osos Groundwater Basin (Basin). The Los Osos Community Services District, the County of San Luis Obispo and the Los Osos Basin Management Committee (BMC) will act as the lead agencies for the WRFP Study. Qualified engineering and hydrogeology consultants are being requested to provide a proposal addressing the scope and needs of this Project described herein.

Proposal Due Date: Thursday, May 27, 2022. Any proposals received after this date/time will be returned to the proposer un-opened. It shall be the proposers' responsibility to verify and confirm receipt of the proposals by the specified due date and time.

Pre-Proposal Meeting: The District will not hold a pre-proposal meeting; however, proposers may contact Ron Munds, General Manager at rmunds@losososcsd.org for additional information and questions.

Proposal Delivery Location: Provide only PDF electronic proposals, emailed to Ron Munds, General Manager at rmunds@losososcsd.org or delivered/mailed to 2122 9th Street, Ste. 110, Los Osos, CA. 93402.

Contact: Contact Ron Munds, General Manager at rmunds@losososcsd.org for details and information regarding this proposal and associated requirements.

BACKGROUND

See Attachment A, Project Description and WRFP Study Outline. The complete application for the WRFP Study is included as Attachment B.

ADDENDA TO RFP

Through the course of the proposal development, consultants may raise questions concerning the RFP, which may impact proposals. The District will issue addenda as necessary to further clarify the requirements and expectations of the RFP. The District reserves the right to issue addenda up to 5 business days prior to the due date of the RFP, without time extension of the RFP due date.

PROPOSAL REQUIREMENTS

Proposal Rejection or Withdrawal. Late proposals (submitted after the specified due date/time) shall be rejected by the District. The District reserves the right to accept or reject any or all proposals.

Agreement. Consultant shall review the Agreement for Services included as Attachment C, and list any exceptions desired for consideration during negotiation of services and fees for the Project. The District will consider all requests; however, reserves the right to reject any or all of Consultant's contract exceptions.

REQUEST FOR PROPOSALS
LOS OSOS COMMUNITY SERVICES DISTRICT
WRFP STUDY

PROPOSAL FORMAT

General. The proposal shall be limited to TWENTY (20) pages in length, not including resumes. The proposal must be signed by a person authorized to bind the proposing firm to the representations, commitments and statements contained in the proposal. The proposal must contain the following information and documents:

1. A cover letter summarizing the key points of the proposal (2 pages max.)
2. **Description of Firm**. A description of the firm's organizational structure, the jurisdiction in which the firm is organized and date of such organization. In addition, provide a brief description of the firm's qualifications and experience on projects of similar nature to those described in the proposal.
3. **Authorized representative of the proposer.** The name, address, telephone number, and email address of the person authorized to represent the proposer with respect to all notices, negotiations, discussions, and other communications relating to this proposal, to any negotiation relating to the contract.
4. **Staffing.** Provide an organizational chart identifying: 1) the project manager for the work; 2) each key person who would be assigned to carry out the work, and their respective roles in performing the work. Provide a separate description of the experience and qualifications of such manager and key persons, including a summary of experience on similar projects to those described in this proposal. Resumes should be included for all key individuals as an appendix to the submittal.
5. **References**. A list of no more than three references for the proposer and no more than three references for the subconsultants, including the names, addresses and telephone numbers of recent clients, preferably other public agencies and a listing of the specific projects and key individuals that have participated in them. Include the dollar amount related to the participation.
6. **Qualifications**. Details about similar projects, including contact information for the agency project manager(s) and the firm's role in preparation.
7. **Understanding/Approach**. Description of your firms understanding of this project and proposed approach to complete the project.
8. **Scope of Work**. A clear concise description of the proposer's understanding of the nature and extent of the services required.
9. **Schedule**. A schedule that outlines key tasks and the sequence in which those tasks will be completed
10. **Fee.** An estimated fee to complete the services described in the Scope of Work. Fee estimate shall include a detailed breakdown of the scope of work into key tasks and included a level of effort and a billing rate for staff working on each of those tasks. Fee estimate shall additionally include information of the firm's overhead rates and other costs, including any and all other costs that would be charged to the District for completion of the project.

Address the proposal to:

Mr. Ron Munds, General Manager
Los Osos Community Services District
2122 9th Street, Ste. 110
Los Osos, CA 93402

The proposal preparation, review and project award schedule is anticipated to follow the schedule below:

REQUEST FOR PROPOSALS
LOS OSOS COMMUNITY SERVICES DISTRICT
WRFP STUDY

Item	Date
RFP Release Date	5/2/2022
Proposal Due	5/27/2022
District Review of Proposals	5/30/2022 to 6/10/2022
Interviews (If needed)	6/13/2022 to 6/17/2022
District Recommendation of Selected Firm	Week of 6/20/2022
Board Meeting to Award Contract	TBD
Consultant Notice of Contract Award	TBD
Contract Negotiation/Notice to Proceed	TBD

REQUEST FOR PROPOSALS
LOS OSOS COMMUNITY SERVICES DISTRICT
WRFP STUDY

Attachment A
Project Description and WRFP Study Outline

This Attachment A includes Project Description and WRFP Study Outline.

Project Background

The purpose of the WRFP study will be to evaluate recycled water and supplemental supply alternatives to improve the sustainability of the Los Osos Groundwater Basin (Basin), which is the sole source of water for the community of Los Osos. The Basin is adjudicated and in 2015 the parties to the adjudication agreed to a Stipulated Judgement and Basin Plan for the management of the Basin. The Stipulated Judgement called for the formation of the Los Osos Basin Management Committee (BMC), which consists of representatives from the Los Osos Community Services District, Golden State Water Company, S&T Mutual Water Company (Water Purveyors) and the County of San Luis Obispo (BMC Parties). In 2021, the BMC developed an estimate of the Sustainable Yield for the Basin for 2022 of 2,380 Acre-Feet. While this Sustainable Yield estimate is greater than current estimates of groundwater pumping in the Basin, approximately 2,000 Acre-Feet per Year (AFY), the target for Basin pumping, established during the development of the Basin Plan, is 80% of the Sustainable Yield or 1,904 AFY to account for uncertainty and prevent degradation from seawater intrusion. To achieve the target ratio between estimated production and the estimated Sustainable Yield additional water conservation measures, implementation of Basin Plan Programs, enhanced use of recycled water and/or importation of supplemental water supplies are needed under current and potential future conditions.

The Basin Plan identified numerous Programs/Projects to increase the Sustainable Yield of the Basin or decrease groundwater pumping to protect against degradation from seawater intrusion and nitrates and to provide water for future growth within the community. It is envisioned that the WRFP Study will evaluate the following water supply alternatives listed in the table below to improve the BMC's understanding of potential opportunities to improve the sustainability of the Basin.

WRFP Study Recycled Water/Water Supply Alternatives

Recycled Water/Water Supply Alternatives	Description
Recycled Water Agriculture Irrigation (Program D)	Distribution of recycled water to agriculture users to offset groundwater pumping.
Recycled Water Creek Discharge	Discharge of recycled water to Los Osos Creek to enhance groundwater recharge.
Surface Water Intertie	Interconnection with regional surface water conveyance system to provide access to State Water or other supplies to enable conjunctive use.
Nitrate Treatment (Program B)	Regional Nitrate Treatment Facility to allow for enhanced use of nitrate contaminated upper aquifer supplies.
Stormwater Capture	Urban or rural stormwater capture and enhanced recharge.
Upper Aquifer Capture and Treatment	Pumping nitrate contaminated upper aquifer water to the collection system for delivery and

	treatment at the LOWRF or directly into the recycled water distribution system.

To facilitate the evaluation of these recycled water/supplemental water supply opportunities identified above, the scope for the WRFP Study includes the development of a transient groundwater model. The current groundwater model for the Basin is steady state only and has a limited ability to run predictive modeling scenarios that account for variable hydrology, climate change impacts, phased project implementation and other time dependent variables. Development of a transient model will provide an improved toolset for establishing baseline estimates of the sustainable yield for the Basin and for evaluating different recycled water/supplemental water supply opportunities to ensure that the Basin can provide a sustainable water supply for potential future conditions.

To assist in the completion of the WRFP Study, it is envisioned that a Technical Advisory Committee (TAC) will be formed that will include representatives of each of the BMC Parties along with a Peer Review Hydrogeologist. The Peer Review Hydrogeologist will be procured separately and along with the TAC will provide review and input into the development and use of the Transient Groundwater Model for the WRFP Study.

The Los Osos Community Services District (District) will be the lead agency for the Study and has applied for $150k in grant funding from the State Water Resource Control Board's Water Recycling Funding Program (WRFP). The County of San Luis Obispo has approved entering into a Cost Reimbursement Agreement with the LOCSD to provide access to $150,000 in funding for the Study to provide the match funding for the WRFP Grant. The BMC will also be contributing $30k to hire a Peer Review Hydrogeologist to participate in the development, calibration and utilization of the Transient Model.

An outline of the proposed WRFP Study is provided below. This outline shall be used as the basis for developing the Scope of Work for completing the WRFP Study. The WRFP Study completed by the consultant must meet the requirements for the WRFP Grant. Additional detail regarding the WRFP Grant Requirements can be found here:
https://www.waterboards.ca.gov/water_issues/programs/grants_loans/water_recycling/facilitiesplan.html

WRFP Study Report Outline

The following is a preliminary outline for the WRFP Study Report.

1. Project Area
    a. Detailed map(s) showing:
        i. Vicinity.
        ii. Relevant hydrologic (major streams, streams receiving waste discharges), geologic, and topographic features.
        iii. Service Area boundaries.
        iv. Project site and service/study area boundary.
        v. Wholesale and retail water supply entity boundaries within study area and adjacent to study area.
        vi. Wastewater agency boundaries within and adjacent to study area.
        vii. Groundwater basin boundaries,
        viii. Existing recycled water distribution pipelines, storage, and users.

ix. Each recycled water facilities alternative, showing approximate locations of distribution pipelines, storage, and potential users.

b. Existing land use, trends, and projected land use.
c. Existing population, trends, and population projections of study area (population projections must be cited from an independent source).

2. Water Supply Characteristics and Facilities
   a. Description of all wholesale and retail entities.
   b. All sources of water for study area and description of major facilities.
   c. Groundwater basins; including quantities extracted by all users, natural and artificial recharge, losses by evapotranspiration, inflow and outflow of basins, and safe yield or overdraft.
   d. Water quality of groundwater.
   e. Water use trends, future demands, prices, and costs.
   f. Sources for additional water and plans for new facilities.
3. Wastewater Characteristics and Facilities
   a. Description of entities.
   b. Description of existing facilities, including treatment/reuse processes and schematic(s), design criteria, current capacities, current flows, current water quality characteristics and beneficial uses of the water resources affected by the facility, and the current discharge location(s).
   c. Wastewater treatment process schematics (existing and proposed) and flows for each stage of treatment (primary, secondary, and tertiary/advanced).
   d. Description of current system users (% residential, commercial, industrial, etc.).
   e. Water quality of effluent and any seasonal variation.
   f. Sources of other problem constituents and control measures.
   g. Existing water recycling users, quantities, and contractual arrangements.
   h. Existing water rights for use of treated effluent after discharge.
   i. Wastewater flow variations, hourly and seasonally.
4. Treatment Objectives for Discharge and Reuse
   a. Future flow increases or other changes to the influent wastewater characteristics.
   b. Required water qualities for potential uses.
   c. Required health-related water qualities or treatment requirements for potential uses, operational and on-site requirements (backflow prevention, buffer zones, dual plumbing, etc.).
   d. Wastewater discharge or reuse requirements and anticipated changes in requirements.
   e. Water quality-related requirements of the RWQCB to protect surface or groundwater from problems resulting from recycled water use.
5. Recycled Water Market
   a. Description of market assessment procedures.
   b. Definition of logical service area based on results of market assessment.
   c. Descriptions of all users or categories of potential users, including:
      i. Type of use;
      ii. Expected annual recycled water use;
      iii. Peak use;
      iv. Estimated internal capital investment required (on-site conversion costs);

v. Necessary water cost savings;
vi. Desire to use recycled water;
vii. Date of possible initial use of recycled water;
viii. Present and future source of water and quantity of use;
ix. Quality and reliability needs; and
x. Wastewater disposal methods.

d. Summary tables of potential users and related data.

6. Transient Groundwater Model Development
   a. Conceptual Groundwater Model
   b. Model Calibration
      i. Including characterizing the extent of a groundwater-surface water interface and the ability to model effects (if any) to surface water conditions
   c. Scenario Analysis
7. Project Alternative Analysis
   a. Planning and design parameters and assumptions:
      i. Delivery and system pressure criteria.
      ii. Peak delivery criteria.
      iii. Storage criteria.
      iv. Planning period over which a water recycling project is evaluated.
   b. Water recycling alternatives to be evaluated:
      i. Alternative markets:
         1. Based on different levels of treatment.
         2. Based on geographical area.
      ii. Treatment alternatives:
         1. Alternative levels of treatment.
         2. Alternative unit processes to achieve a given level of treatment.
         3. Plant treatment process prior to construction.
         4. Class of plant prior to and after construction (i.e. Class I, II, III, IV, or V).
      iii. Pipeline distribution alternatives:
         1. Pipeline lengths, diameter, and material.
         2. Quantity of service laterals and meters to be installed.
      iv. Storage alternatives:
         1. Location, type, and material.
         2. Storage analysis using diurnal flows.
      v. Pump/lift station alternatives:
         1. Provide reason for new pump station and/or upgrades.
         2. Describe pump types, proposed well design, and proposed components.
   c. Non-recycled water alternatives:
      i. Discussion of other potentially viable new sources of water.
      ii. Provide economic costs.
   d. Water conservation/reduction analysis:
      i. Description of analysis.
      ii. Impact on recycling, if any.
      iii. Recommendation.

iv. Implementation.

e. Pollution control alternatives, if applicable, needed to comply with waste discharge requirements, and possible allocation of costs between recycling and pollution control.
f. No project alternative.
g. Information supplied for each alternative to include, but not be limited to:
    i. Cost tables for each alternative with breakdown of costs by total capital (without grants), O&M, unit processes, equivalent annual cost, and per acre-foot cost.
    ii. List of potential users assumed for each alternative.
    iii. Economic analysis in dollars per acre-foot of recycled water produced or delivered.
    iv. Water quality impacts:
        1. Effect on receiving water by removing or reducing discharge of effluent, including effect on beneficial uses resulting from reduced flow.
h. Comparative environmental analysis.
i. Comparison of above alternatives and recommendation of specific alternative.

8. Recommended Project
    a. Description of all proposed facilities and basis for selection.
    b. Preliminary design criteria.
    c. Cost estimate based on time of construction:
        i. Selected project alternative total cost.
        ii. Cost index.
        iii. Discount rate.
        iv. Useful life (years).
        v. Life cycle costs (present worth included O&M costs).
        vi. Operations and maintenance yearly costs.
        vii. Replacement costs.
    d. List of all potential users, quantity of recycled water use, peak demand, and commitments obtained.
    e. Reliability of facilities as compared to user requirements.
    f. Implementation plan:
        i. Coordination with water suppliers, determination of recycled water supplier and needed agreements or ordinances.
        ii. Tentative water recycling requirements of RWQCB.
        iii. Water rights impact.
        iv. Permits required for project implementation.
        v. Detailed schedule including, but not limited to, notice-to proceed, construction completion, initiation of operations, etc.
    g. Operational plan - responsible people, equipment, monitoring, irrigation scheduling, etc.
    h. Description of any key issues to be resolved, particularly items that may significantly impact the project budget or schedule.
9. Construction Financing Plan and Revenue Program
    a. Sources and timing of funds for design and construction.

b. Pricing policy for recycled water.
c. Costs that can be allocated to water pollution control.
d. Annual costs (required revenue) of recycling project.
e. Sunk costs and indebtedness.

10. Appendices
    a. Tables of all abbreviations.
    b. Copies of letters of interest or intent from recycled water users, other documentation of support from potential users, or draft letters to potential users regarding interest/intent.
    c. Draft of recycled water mandatory use ordinance or model user contract.
    d. Drafts of necessary agreements, such as wholesale-retail agreement, joint powers agreement, etc.
    e. Hydraulic calculations, model output summaries, other related conclusion supporting information.

ATTACHMENT B

LOCSD WRFP Study Application

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
P. O. Box 944212, Sacramento, CA 94244-2120

WATER RECYCLING FUNDING PROGRAM PLANNING GRANT APPLICATION

I. APPLICANT INFORMATION

Agency Name: Los Osos Community Services District

Agency Type: ☑ Public – Local ☐ Public - State ☐ Indian Tribe ☐ Nonprofit ☐ Other: Specify _____

Charter City/County: ☐ Yes ☑ No

Street Address: 2122 9th Street, Suite 110, Los Osos, CA 93402

Mailing Address: 2122 9th Street, Suite 110, Los Osos, CA 93402

Congressional District(s):	State Senate District(s):
State Assembly District(s):	County (or Counties): San Luis Obispo

Regional Water Board where the project will take place: ☐ 1 (North Coast) ☐ 2 (San Francisco Bay) ☑ 3 (Central Coast) ☐ 4 (Los Angeles) ☐ 5 (Central Valley) ☐ 6 (Lahontan) ☐ 7 (Colorado River) ☐ 8 (Santa Ana) ☐ 9 (San Diego)

Federal ID No.: 77-0504518

Authorized Representative Name, Title: Ron Munds, General Manager

Phone No.: (805) 528-9379	Email Address: rmunds@losososcsd.org

General Contact Person Name, Title: Ron Munds

Phone No.: (805) 528-9379	Email Address: rmunds@losososcsd.org

II. PROJECT INFORMATION

Project Title: Los Osos Recycled Water and Supplemental Supply Alternatives Analysis Study

Total Study Cost: $ 330,000

Grant Amount Requested: $ 150,000

Estimated Project Schedule	Study starting date	Submit draft project report	Submit final project report
	03/01/22	12/01/23	03/01/24

Funds for Cash Flow: The Agency is expected to have funds available to handle cash flow of the entire study cost, Pending receipt of grant disbursements.
Does the Agency have local funds on hand to cover the entire study cost? ☑ Yes ☐ No

Describe any other loans, grants, or other financial assistance provided to the grant applicant to assist in this study:

The Los Osos Community Services District anticipates entering into a Cost Reimbursement Agreement with the County of San Luis Obispo to access $150,000 in match funding.

State Use Only	
WRFP Project #	
Project Manager	
Date Received	

III. PROJECT SERVICE AREA DEMOGRAPHICS

Current year Median Household Income is less than 80% of the Statewide average: ☐ DAC
or less than 60% of the Statewide average: ☐ SDAC
☑ not a DAC/SDAC

IV. ENVIRONMENTAL COMPLIANCE FOR PLANNING

Environmental documents completed for planning: ☑ Categorical Exemption ☐ IS/ND, IS/MND or EIR

V. REGULATORY INFORMATION AND WATER RIGHTS REQUIREMENTS

NPDES Permit and/or WDR Order No.:

Has enforcement action occurred as a result of the water quality problem?	☐ Yes	☑ No
Is your entity a water diverter and subject to section 5103 of the Water Code?	☐ Yes	☑ No

VI. DISCUSSION OF MATERIAL EVENTS, MATERIAL OBLIGATION CONDITIONS, AND ANY DEBT LIMIT

Identify any current, prior or pending material events such as bankruptcy, defaults, litigation, grant jury findings, unscheduled draws on reserve funds, substitution of insurers or their failure to perform, unscheduled draws on credit enhancements, actions taken in anticipation of filing Chapter 9, rating changes, relevant conditions in material obligations, and any local debt limit:

In 2006, the Los Osos Community Services District (District) filed for Chapter 9 bankruptcy as a result a failed attempt to construct a community wastewater project. Since the finalized terms and conditions of the bankruptcy, the District has raised its S&P credit rating to A- and has achieved financial stability by establishing adequate revenues and reserves for all facets of its operations and fiscal responsibilities.

VII. ATTACHMENTS

☑ 1 – Plan of Study (see attached for format)

☑ 2 – Authorizing Resolution/Ordinance (see attached example)

☑ 3 – Certification for Compliance with Water Metering (see attached)

☑ 4 – Water Conservation and Water Management Certification Form (see attached)

☑ 5 – Relevant Service, Management, Operating or Joint Powers Agreements (if applicable)

CERTIFICATION AND SIGNATURE OF AUTHORIZED REPRESENTATIVE

To the best of my knowledge and belief, I certify that I am authorized to submit this application; the information provided in this application is true and correct; the documentation has been duly authorized by the governing body of the applicant; and the entity possesses the legal authority to apply for this funding and enter into a funding agreement with the State Water Resources Control Board and conduct the proposed planning effort.

Name of Authorized Representative: Ron Munds Title: General Manager

Signature of Authorized Representative: Ron Munds Digitally signed by Ron Munds Date: 2022.02.07 09:53:25 -08'00' Date: 02/07/22

PLAN OF STUDY

The Plan of Study must address the following 14 areas, and describe the activities to complete the study and develop the project report:

1. A description of the recycled water service area that will be studied.
2. The potential sources of recycled water and a brief summary of the unit processes currently in use at existing treatment facilities.
3. A description of the current disposal/reuse of the wastewater that is proposed to be recycled.
4. A map of the study area showing the sources of recycled water and potential service area(s). The map should clearly show the study area boundary and boundaries of other associated agencies, such as community or sewer services districts, municipalities and water supply agencies.
5. General description of current sources of fresh water, including quantity and potential future demand.
6. Identification of the water and wastewater agencies having jurisdictions over the sources of recycled water and/or the potential service area.
7. A general description of water recycling and fresh/potable water supply alternatives that may be evaluated.
8. A description of the opportunities for stakeholder participation, for example, public meeting with the local community members, potential recycled water users, and other agencies that have a stake in the study.
9. A schedule with the start and completion dates of major tasks associated with the study.
10. A list of potential problems that may cause delays of the study and description of the proposed actions to reduce the impact of these potential problems.
11. Identification of the entities that will be conducting the study and description of their roles. This may include a description of proposed subcontracts with consultants or interagency agreements with other agencies, and any force account work.
12. Proposed budget for the study, including estimated costs of specific tasks including the recycled water market assessment, alternatives development and analysis, recommended project development, draft and final reports, and quality control.
13. Sources of financing, and sources of funds for cash flow until grant reimbursement.
14. Proposed Report outline. The applicant should consult Appendix B in the WRFP Guidelines for a suggested outline and list of required study subject areas[1].

1 The applicant should review the list of study areas and develop their own report outline based on this list and include other subject areas relevant and appropriate to their study.

1 - Plan of Study

Plan of Study - Los Osos Basin Water Recycling Funding Program Facilities Planning Grant

The following Plan of Study is for the preparation of a Water Recycling Funding Program Facilities Planning Study (WRFP Study) for the community of Los Osos. The purpose of the study will be to evaluate recycled water and supplemental supply alternatives to improve the sustainability of the Los Osos Groundwater Basin (Basin), which is the sole source of water for the community. The Los Osos Community Services District and the Los Osos Basin Management Committee will act as the lead agencies for the Study. Additional information on the community of Los Osos, the Los Osos Groundwater Basin, the water/wastewater/recycled water purveyors and the WRFP Study is provided below.

The Plan of Study must address the following 14 areas, and describe the activities to complete the study and develop the project report:

1. A description of the recycled water service area that will be studied.
4. A map of the study area showing the sources of recycled water and potential service area(s). The map should clearly show the study area boundary and boundaries of other associated agencies, such as community or sewer services districts, municipalities and water supply agencies.

Study Area

The general study area for the Los Osos Basin WRFP Study will included the Los Osos Groundwater Basin (Basin) and the unincorporated community of Los Osos. The specific boundary area for the WRFP Study will the Los Osos Basin Plan Area, which roughly parallels with the identified boundary of the Los Osos Basin and is shown in Figure 1 below.

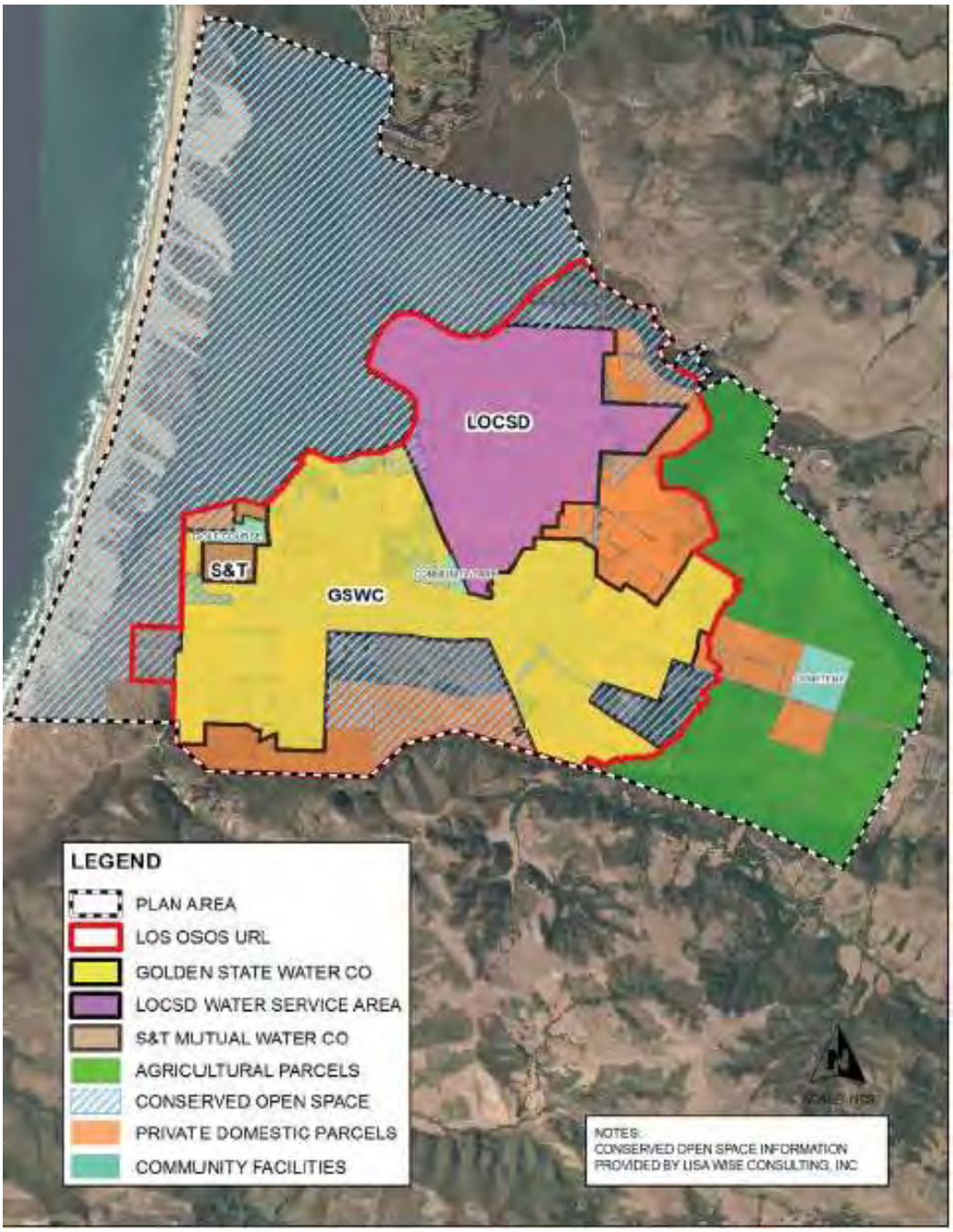


Figure 1. WRFP Study Area

5. General description of current sources of fresh water, including quantity and potential future demand.

Water Supply and Demand

The community of Los Osos relies upon groundwater from the Basin as the sole source of water for the community. Three agencies: Los Osos Community Services District; Golden State Water; and S&T Mutual Water Company (Water Purveyors) provide potable water to majority of the community. The service areas for the water purveyors are shown in Figure 1. Additionally, there are numerous private agricultural and rural residential wells that also pump from the Basin. Table 1 below provides an

overview of the production and demand for the purveyors and private pumpers in the Basin for 2020 and estimated demand at Buildout (based on population and demand estimates from the 2009 Estero Area Plan).

Table 1. 2020 Basin Production and Buildout Estimated Demand

Description	2020 Production (Acre-Feet)[1]	Buildout Demand Estimate (Acre-Feet)
Los Osos Community Services District	527	**2,880**[2]
Golden State Water Company	502	
S&T Mutual Water Company	34	
Purveyor subtotal	**1,063**	
Domestic wells	220	
Community facilities	80	
Agricultural wells	650	
Total Estimated Production	**2,010**	

The Basin is adjudicated and in 2015 the parties to the adjudication agreed to a Stipulated Judgement and Basin Plan for the management of the Basin. The Stipulated Judgement called for the formation of the Los Osos Basin Management Committee (BMC), which consists of representatives from each of the Water Purveyors and the County of San Luis Obispo (BMC Parties). In 2021, the BMC developed an estimate of the Sustainable Yield for the Basin for 2022 of 2,380 Acre-Feet. While this Sustainable Yield estimate exceeds current production, the BMC established a Basin Yield Metric target production that is 80% of the Sustainable Yield estimate or 1,904 Acre-Feet to account for uncertainty and prevent degradation from seawater intrusion. Additional water conservation measures, implementation of Basin Plan Programs, enhanced use of recycled water and/or importation of supplemental water supplies are needed to achieve the Basin Yield Metric target under current and future conditions.

2. The potential sources of recycled water and a brief summary of the unit processes currently in use at existing treatment facilities.

3. A description of the current disposal/reuse of the wastewater that is proposed to be recycled.

Wastewater Treatment

In 2015 the Los Osos Wastewater Project came online and included the construction of a wastewater collection system and County of San Luis Obispo Water Recycled Facility (WRF). Previously, wastewater treatment and disposal were provided via septic tanks and leach fields or decentralized wastewater treatment facilities. Wastewater collected from the collection system or sewered area of the community is conveyed to the WRF, treated to tertiary treatment standards and distributed to recycled water users and for disposal at five locations throughout the community, see Table 2 below. Figure 2 provides an

[1] Production estimates from 2020 Los Osos Basin Annual Monitoring Report
[2] Estimated Buildout demand for Basin Plan Area, based on Estero Area Plan

overview of the portion of the community where wastewater is collected and treated at the WRF. There are areas within the Basin that are not connected to the WRF and which continue to utilize septic systems for wastewater treatment and disposal.

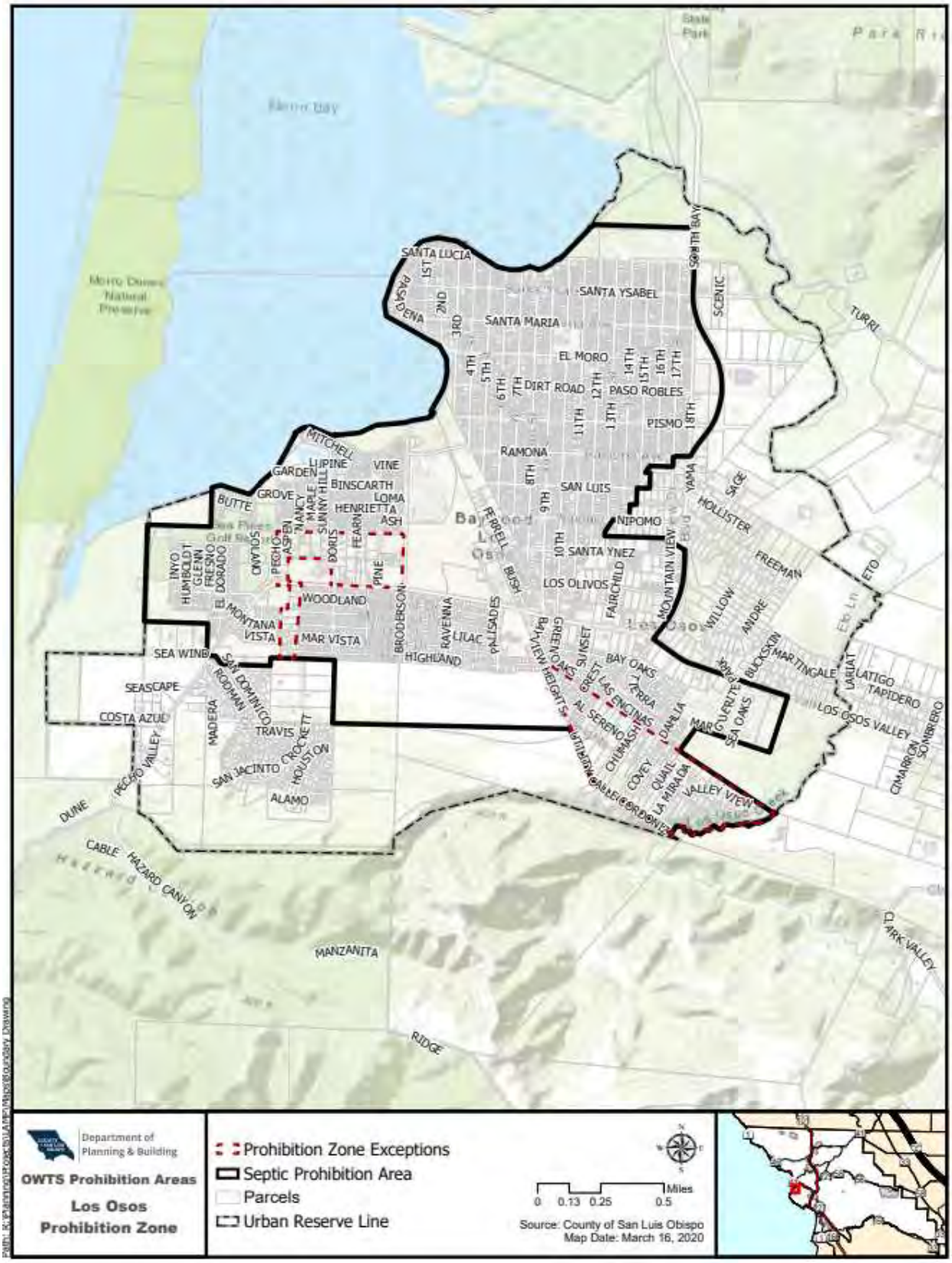


Figure 2. Wastewater Collection Map

The WRF provides wastewater treatment and produces recycled water through primary treatment (settling), secondary treatment (Biological Nutrient Removal) and tertiary treatment (filtration), along with disinfection. The treatment-specific processes include headworks, oxidation ditch, secondary clarification, cloth filtration and chlorine disinfection.

Recycled Water Disposal/Uses

Tertiary treated effluent from the WRF is currently reused or disposed at multiple locations. The primary disposal location is the Broderson Leachfield and the secondary disposal location is the Bayridge Leachfield. Tertiary effluent is also reused for landscape irrigation at the Sea Pines Golf Course, Los Osos Valley Road median (new use in 2021), for construction water and for agriculture irrigation. A breakdown of the disposal/uses of recycled water from the WRF in 2020 is provided in Table 2 below and Figure 3 provides an overview of the WRF disposal and reuse distribution system.

Table 2. 2020 WRF Recycled Water Disposal/Uses

Year	Month	Influent	Disposal (Broderson)	Disposal (Bayridge)	Landscape Irrigation (Sea Pines)	Agricultural Irrigation (Goodwin)	Construction	Discharge/ Recycled Water Delivery Total (AF)
2020	Jan	45.1	41.2	0.0	1.9	0.0	0.0	43.1
2020	Feb	42.1	37.2	0.0	4.3	0.0	0.1	41.6
2020	Mar	47.8	45.8	0.0	3.5	0.0	0.1	49.4
2020	Apr	45.7	35.8	1.0	7.2	0.0	0.1	44.1
2020	May	47.9	33.0	1.1	12.2	0.0	0.0	46.3
2020	Jun	45.8	31.5	1.0	10.4	0.0	0.0	42.9
2020	Jul	47.6	33.2	1.0	10.4	0.0	0.0	44.6
2020	Aug	47.6	37.8	1.0	5.6	0.0	0.0	44.4
2020	Sept	45.6	37.0	0.9	5.7	0.0	0.0	43.6
2020	Oct	46.2	41.6	1.0	2.4	0.0	0.1	45.2
2020	Nov	45.9	41.1	0.9	1.7	0.0	0.0	43.7
2020	Dec	47.1	40.9	1.1	1.7	0.0	0.1	43.8
Total		554.5	456.0	9.0	67.0	0.0	0.6	532.5

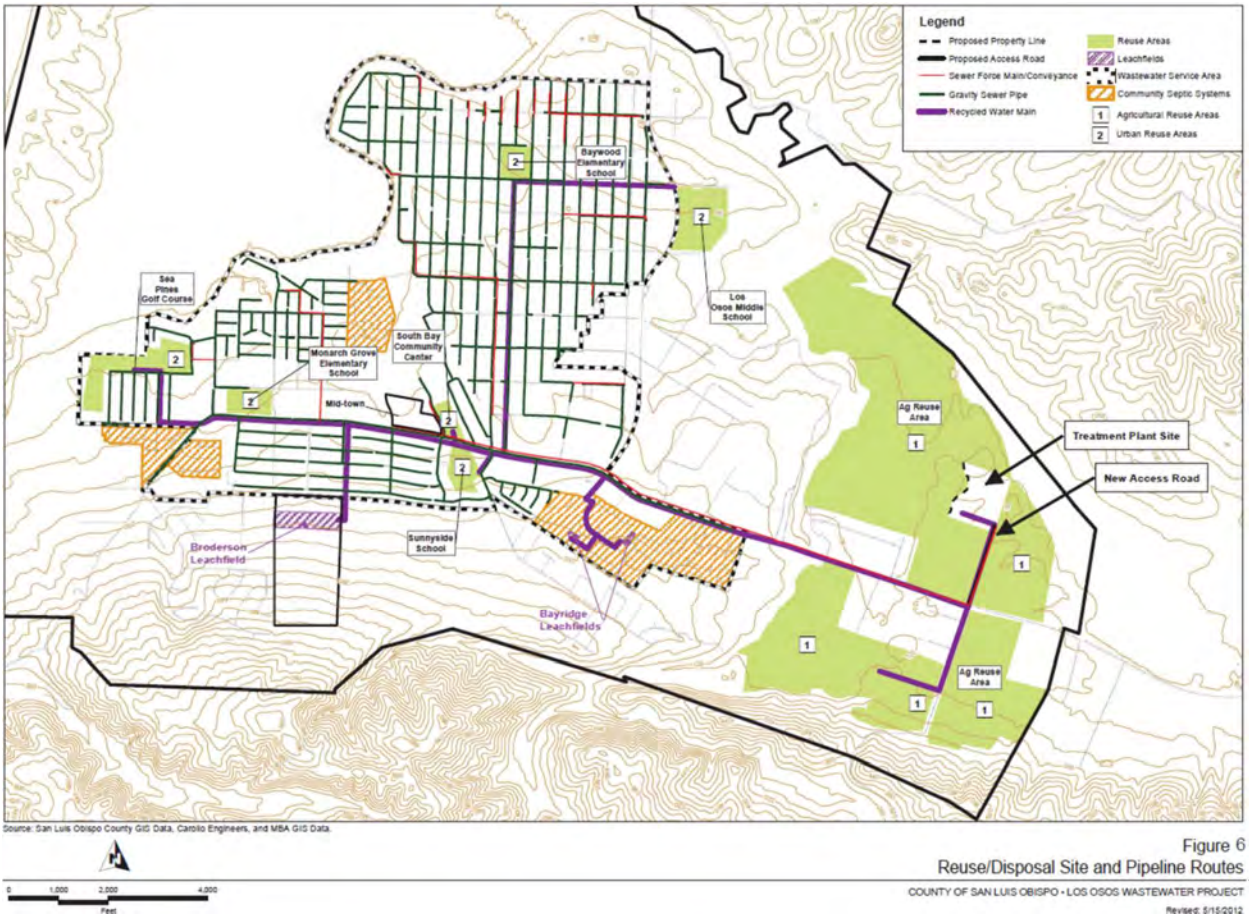


Figure 3. Recycled Water System Overview

The County of San Luis Obispo owns and operates the WRF and manages distribution of the tertiary effluent for reuse and disposal. The Water Purveyors, however, have agreements in place with the County that allows the distribution of recycled water to locations within a specific water purveyor's service area. To be consistent with state law and avoid duplication of service issues, each site remains a customer of their current water purveyor including the rates and charges for recycled water use.

7. A general description of water recycling and fresh/potable water supply alternatives that may be evaluated.

Recycled Water and Supplemental Water Supply Alternatives

The Basin Plan identified numerous Programs/Projects to increase the Sustainable Yield of the Basin to protect against degradation from seawater intrusion and nitrates and to provide water for future growth within the community. It is envisioned that the WRFP Study will evaluate the following water supply alternatives listed in Table 3 to improve the BMC's understanding of potential opportunities to improve the sustainability of the Basin.

Table 3. WRFP Study Recycled Water/Water Supply Alternatives

Recycled Water/Water Supply Alternatives	Description
Recycled Water Agriculture Irrigation (Program D)	Distribution of recycled water to agriculture users to offset groundwater pumping.
Recycled Water Creek Discharge	Discharge of recycled water to Los Osos Creek to enhance groundwater recharge.
Surface Water Intertie	Interconnection with regional surface water conveyance system to provide access to State Water or other supplies to enable conjunctive use.
Nitrate Treatment (Program B)	Regional Nitrate Treatment Facility to allow for enhanced use of nitrate contaminated upper aquifer supplies.
Stormwater Capture	Urban or rural stormwater capture and enhanced recharge.
Upper Aquifer Capture and Treatment	Pumping nitrate contaminated upper aquifer water to the collection system for delivery and treatment at the LOWRF or directly into the recycled water distribution system.

To facilitate the evaluation of these recycled water/supplemental water supply opportunities identified above, the scope for the WRFP Study includes the development of a transient groundwater model. The current groundwater model for the Basin is steady state only and has a limited ability to run predictive modeling scenarios that account for variable hydrology, climate change impacts, phased project implementation and other time dependent variables. Development of a transient model will provide an improved toolset for establishing baseline estimates of the sustainable yield for the Basin and for evaluating different recycled water/supplemental water supply opportunities to ensure that the Basin can provide a sustainable water supply for potential future conditions.

9. A schedule with the start and completion dates of major tasks associated with the study.
11. Identification of the entities that will be conducting the study and description of their roles. This may include a description of proposed subcontracts with consultants or interagency agreements with other agencies, and any force account work.
12. Proposed budget for the study, including estimated costs of specific tasks including the recycled water market assessment, alternatives development and analysis, recommended project development, draft and final reports, and quality control.
13. Sources of financing, and sources of funds for cash flow until grant reimbursement.

WRFP Study Overview

Table 4 provides a summary of the anticipated tasks, including budget and schedule estimates, to be included in the WRFP Study.

Table 4. WRFP Study Task Summary

Task	Description	Budget Estimate	Start - End Completion Dates
Project Management	Project Team Meetings, Schedule Management, Invoicing, Technical Advisory Committee Coordination	$ 20,000	Q1 2022 – Q1 2024
Transient Groundwater Model	Development and calibration of a Transient Groundwater Model to assist with basin understanding, predictive modeling, Basin Plan project implementation analysis, and cost/benefit evaluations for future projects	$ 150,000	Q1 2022 – Q2 2023
Scenario Analysis	Utilization of transient model to evaluate benefits of recycled water/supplemental water supply alternatives.	$ 50,000	Q2 2023
Model Development Peer Review (QA/QC)	3rd Party Hydrogeologist review of development of the model, calibration and scenario analysis	$ 30,000	Q1 2022 – Q1 2024
Supplemental Supply Alternatives Evaluation	Preliminary engineering analysis, market assessment and development of updated costs estimates for recycled water/supplemental water supply alternatives.	$ 50,000	Q3 2023
Draft Report	Development of Draft RWFP Study Report for submission to Water Recycling Funding Program.	$ 20,000	Q4 2023
Report Development	Development of Final RWFP Study Report for submission to Water Recycling Funding Program.	$ 10,000	Q1 2024
Total		**$ 330,000**	
Anticipated WRFP Grant Contribution		$ 150,000	
Anticipated SLO County Funding Contribution		$ 150,000	
Anticipated BMC Funding Contribution		$ 30,000	

The LOCSD, County of San Luis Obispo and the BMC are partnering together on the WRFP Study. The LOCSD will be the lead agency and apply for the WRFP Facilities Planning Grant. To fund the study, the County of San Luis Obispo will enter into a cost reimbursement agreement with the LOCSD to provide $150,000 of previously budgeted funds for a transient groundwater model for the Basin. These funds will be utilized as match for the WRFP Facilities Planning Grant. It is also anticipated that the BMC will contribute $30,000 to cover the budget for the Model Development Peer Review task. The LOCSD will provide any additional funds necessary to complete the project until the grant reimbursement is received.

8. A description of the opportunities for stakeholder participation, for example, public meeting with the local community members, potential recycled water users, and other agencies that have a stake in the study.

10. A list of potential problems that may cause delays of the study and description of the proposed actions to reduce the impact of these potential problems.

Stakeholder Participation

To assist in the completion of the WRFP Study, it is envisioned that a technical advisory committee will be formed that will include representatives of each of the BMC Parties along with a Peer Review Hydrogeologist (Technical Advisory Committee). The Technical Advisory Committee will provide the opportunity for key stakeholders to participate in and contribute to the development of the Transient Model and WRFP Study. Additionally, the Executive Director of the BMC will provide frequent updates on the status of the WRFP Study during BMC Meetings, which are Brown Act Public Meetings. Key deliverables for the WRFP Study will additionally be made available for public review and comment through the BMC Meetings.

To mitigate any potential problems or divergence of opinions that could arise during the development of the transient groundwater model, participation of a Peer Review Hydrogeologist and a Technical Advisory Committee were included as part of the development of the WRFP Study to build stakeholder and public buy-in for the tools that will be developed and the recommendations that the WRFP Study will provide.

14. Proposed Report outline. The applicant should consult Appendix B in the WRFP Guidelines for a suggested outline and list of required study subject areas[1].

WRFP Study Report Outline

The following is a preliminary outline for the WRFP Study Report.

1. Project Area
    a. Detailed map(s) showing:
        i. Vicinity.
        ii. Relevant hydrologic (major streams, streams receiving waste discharges), geologic, and topographic features.
        iii. Service Area boundaries.
        iv. Project site and service/study area boundary.
        v. Wholesale and retail water supply entity boundaries within study area and adjacent to study area.
        vi. Wastewater agency boundaries within and adjacent to study area.
        vii. Groundwater basin boundaries,
        viii. Existing recycled water distribution pipelines, storage, and users.
        ix. Each recycled water facilities alternative, showing approximate locations of distribution pipelines, storage, and potential users.
    b. Existing land use, trends, and projected land use.
    c. Existing population, trends, and population projections of study area (population projections must be cited from an independent source).
2. Water Supply Characteristics and Facilities
    a. Description of all wholesale and retail entities.
    b. All sources of water for study area and description of major facilities.
    c. Groundwater basins; including quantities extracted by all users, natural and artificial recharge, losses by evapotranspiration, inflow and outflow of basins, and safe yield or overdraft.

d. Water quality of groundwater.
e. Water use trends, future demands, prices, and costs.
f. Sources for additional water and plans for new facilities.

3. Wastewater Characteristics and Facilities
    a. Description of entities.
    b. Description of existing facilities, including treatment/reuse processes and schematic(s), design criteria, current capacities, current flows, current water quality characteristics and beneficial uses of the water resources affected by the facility, and the current discharge location(s).
    c. Wastewater treatment process schematics (existing and proposed) and flows for each stage of treatment (primary, secondary, and tertiary/advanced).
    d. Description of current system users (% residential, commercial, industrial, etc.).
    e. Water quality of effluent and any seasonal variation.
    f. Sources of other problem constituents and control measures.
    g. Existing water recycling users, quantities, and contractual arrangements.
    h. Existing water rights for use of treated effluent after discharge.
    i. Wastewater flow variations, hourly and seasonally.
4. Treatment Objectives for Discharge and Reuse
    a. Future flow increases or other changes to the influent wastewater characteristics.
    b. Required water qualities for potential uses.
    c. Required health-related water qualities or treatment requirements for potential uses, operational and on-site requirements (backflow prevention, buffer zones, dual plumbing, etc.).
    d. Wastewater discharge or reuse requirements and anticipated changes in requirements.
    e. Water quality-related requirements of the RWQCB to protect surface or groundwater from problems resulting from recycled water use.
5. Recycled Water Market
    a. Description of market assessment procedures.
    b. Definition of logical service area based on results of market assessment.
    c. Descriptions of all users or categories of potential users, including:
        i. Type of use;
        ii. Expected annual recycled water use;
        iii. Peak use;
        iv. Estimated internal capital investment required (on-site conversion costs);
        v. Necessary water cost savings;
        vi. Desire to use recycled water;
        vii. Date of possible initial use of recycled water;
        viii. Present and future source of water and quantity of use;
        ix. Quality and reliability needs; and
        x. Wastewater disposal methods.
    d. Summary tables of potential users and related data.
6. Transient Groundwater Model Development
    a. Conceptual Groundwater Model
    b. Model Calibration

c. Scenario Analysis

7. Project Alternative Analysis
    a. Planning and design parameters and assumptions:
        i. Delivery and system pressure criteria.
        ii. Peak delivery criteria.
        iii. Storage criteria.
        iv. Planning period over which a water recycling project is evaluated.
    b. Water recycling alternatives to be evaluated:
        i. Alternative markets:
            1. Based on different levels of treatment.
            2. Based on geographical area.
        ii. Treatment alternatives:
            1. Alternative levels of treatment.
            2. Alternative unit processes to achieve a given level of treatment.
            3. Plant treatment process prior to construction.
            4. Class of plant prior to and after construction (i.e. Class I, II, III, IV, or V).
        iii. Pipeline distribution alternatives:
            1. Pipeline lengths, diameter, and material.
            2. Quantity of service laterals and meters to be installed.
        iv. Storage alternatives:
            1. Location, type, and material.
            2. Storage analysis using diurnal flows.
        v. Pump/lift station alternatives:
            1. Provide reason for new pump station and/or upgrades.
            2. Describe pump types, proposed well design, and proposed components.
    c. Non-recycled water alternatives:
        i. Discussion of other potentially viable new sources of water.
        ii. Provide economic costs.
    d. Water conservation/reduction analysis:
        i. Description of analysis.
        ii. Impact on recycling, if any.
        iii. Recommendation.
        iv. Implementation.
    e. Pollution control alternatives, if applicable, needed to comply with waste discharge requirements, and possible allocation of costs between recycling and pollution control.
    f. No project alternative.
    g. Information supplied for each alternative to include, but not be limited to:
        i. Cost tables for each alternative with breakdown of costs by total capital (without grants), O&M, unit processes, equivalent annual cost, and per acre-foot cost.
        ii. List of potential users assumed for each alternative.
        iii. Economic analysis in dollars per acre-foot of recycled water produced or delivered.
        iv. Water quality impacts:
            1. Effect on receiving water by removing or reducing discharge of effluent, including effect on beneficial uses resulting from reduced flow.

h. Comparative environmental analysis.
i. Comparison of above alternatives and recommendation of specific alternative.

8. Recommended Project
    a. Description of all proposed facilities and basis for selection.
    b. Preliminary design criteria.
    c. Cost estimate based on time of construction:
        i. Selected project alternative total cost.
        ii. Cost index.
        iii. Discount rate.
        iv. Useful life (years).
        v. Life cycle costs (present worth included O&M costs).
        vi. Operations and maintenance yearly costs.
        vii. Replacement costs.
    d. List of all potential users, quantity of recycled water use, peak demand, and commitments obtained.
    e. Reliability of facilities as compared to user requirements.
    f. Implementation plan:
        i. Coordination with water suppliers, determination of recycled water supplier and needed agreements or ordinances.
        ii. Tentative water recycling requirements of RWQCB.
        iii. Water rights impact.
        iv. Permits required for project implementation.
        v. Detailed schedule including, but not limited to, notice-to proceed, construction completion, initiation of operations, etc.
    g. Operational plan - responsible people, equipment, monitoring, irrigation scheduling, etc.
    h. Description of any key issues to be resolved, particularly items that may significantly impact the project budget or schedule.
9. Construction Financing Plan and Revenue Program
    a. Sources and timing of funds for design and construction.
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    c. Costs that can be allocated to water pollution control.
    d. Annual costs (required revenue) of recycling project.
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10. Appendices
    a. Tables of all abbreviations.
    b. Copies of letters of interest or intent from recycled water users, other documentation of support from potential users, or draft letters to potential users regarding interest/intent.
    c. Draft of recycled water mandatory use ordinance or model user contract.
    d. Drafts of necessary agreements, such as wholesale-retail agreement, joint powers agreement, etc.
    e. Hydraulic calculations, model output summaries, other related conclusion supporting information.

2 - Authorizing Resolution/Ordinance

Date: February 3, 2022
Agenda Item No: 7H
(✓) Approved
( ) Denied
( ) Continued to

RESOLUTION 2022-08

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE LOS OSOS COMMUNITY SERVICES DISTRICT DESIGNATING THE GENERAL MANAGER AS THE AUTHORIZED REPRESENTATIVE TO FILE AN APPLICATION AND EXECUTE AGREEMENTS FOR A WATER RECYCLING FUNDING PROGRAM PLANNING GRANT

WHEREAS, the State of California has established a Water Recycling Funding Program Planning Grant program; and

WHEREAS, the Los Osos Community Services District (District) General Manager, Ron Munds or his designee, is especially suited to ensure the grant application materials submitted by and on behalf of the Los Osos Community Services District are prepared in a complete, efficient and adequate manner; and

WHEREAS, the District General Manager, Ron Munds, has the authority to ensure that project is carried out in full compliance with the applicable terms and conditions of an agreement.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Los Osos Community Services District that:

1. The General Manager or designee is hereby authorized and directed to sign and file, for and on behalf of the District, a Financial Assistance Application for a grant agreement from the State Water Resources Control Board for the completion of the Los Osos Recycled Water and Supplemental Supply Alternatives Analysis Study (the "Project").
2. This Authorized Representative, or his designee, is designated to provide the assurances, certifications, and commitments required for the financial assistance application, including executing a financial assistance agreement from the State Water Resources Control Board and any amendments or changes thereto.
3. This Authorized Representative, or his designee, is designated to represent the District in carrying out the District's responsibilities under the grant agreement, including certifying disbursement requests on behalf of the District and compliance with applicable state and federal laws.

On the motion of Director Ochylski, seconded by Director Cesena and on the following roll call vote, to wit:

AYES: Ochylski, Cesena, Gratchell, Womack, Fourcray
NOES: _____
ABSTAIN: _____
ABSENT: _____

The foregoing resolution is hereby passed, approved and adopted by the Board of Directors of the Los Osos Community Services District this 3rd day of February, 2022.

Matthew D. Fourcroy
President, Board of Directors
Los Osos Community Services District

ATTEST:

Ron Munds
General Manager and Secretary to the Board

APPROVED AS TO FORM:

Jeffrey A. Minnery
District Legal Counsel

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Los Osos Community Services District held on February 3, 2022.

Ron Munds, General Manager and Secretary to the Board

CERTIFICATION FOR COMPLIANCE WITH WATER METERING REQUIREMENTS FOR FUNDING APPLICATIONS

Funding Agency Name: State Water Resources Control Board

Funding Program Name: Water Recycling Funding Program

Applicant: Los Osos Community Services District

Please check one of the boxes below and sign and date this form.

☑ As the authorized representative for the applicant, I certify under penalty of perjury that the applicant is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

☑ As the authorized representative for the applicant, I certify under penalty of perjury that the applicant has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that the ordinances, rules, or regulations submitted with this certification as listed below have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Ron Munds	General Manager
Name of Authorized Representative (Please print)	Title
Ron Munds Digitally signed by Ron Munds Date: 2022.02.07 09:54:03 -08'00'	02/07/22
Signature of Authorized Representative	Date

WATER CONSERVATION & WATER MANAGEMENT CERTIFICATION FORM FOR COMPLIANCE WITH DIVISION 6 OF THE CALIFORNIA WATER CODE

REQUIRED FOR ALL WRFP FUNDING APPLICATIONS

Funding Agency Name: State Water Resources Control Board

Funding Program Name: Water Recycling Funding Program

Applicant: Los Osos Community Services District

Please check one of the boxes below and sign and date this form.

☑ As the authorized representative for the applicant, I certify under penalty of perjury that the applicant is a water supplier, as that term is understood pursuant to the provisions of the California Water Code and has complied with all applicable provisions of Division 6 of the Water Code.

☐ As the authorized representative for the applicant, I certify under penalty of perjury that applicant is not a water supplier, and the applicant certifies that the water suppliers in its service or project area have complied with all applicable provisions of Division 6 of the Water Code.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Ron Munds	General Manager
Name of Authorized Representative (Please print)	Title
Ron Munds Digitally signed by Ron Munds Date: 2022.02.07 09:54:27 -08'00'	02/07/22
Signature of Authorized Representative	Date

ATTACHMENT C

LOS OSOS CSD STANDARD AGREEMENT

TO: **Los Osos Basin Management Committee**

FROM: **Dan Heimel, Executive Director**

DATE: **April 20, 2022**

SUBJECT: **Item 8d – BMC Contract Legal Services RFP**

Recommendations

Receive a draft of the BMC Contract Legal Services RFP and provide direction to staff.

Discussion

Historically, the BMC, including the Board of Directors and Executive Director, received legal input from legal counsel representing individual BMC Parties. However, given that the BMC is separate from the parties to the Stipulated Judgement and has its own independent authority and interests, if the BMC or its staff needs legal advice it would be beneficial to have access to dedicated legal counsel, working solely for the BMC and not the BMC Parties, to provide legal advice on an as-needed basis.

In the Calendar Year 2022 Budget, the BMC approved a $20,000 Legal Counsel Contingency to be included in the Executive Director's Budget, authorized the Executive Director to utilize up to $5,000 before requiring BMC approval and provide updates on legal counsel spending in the Executive Director's Report.

Qualified firms and/or individuals will be solicited utilizing the attached draft RFQ for providing Contract Legal Services for the BMC.

LOS OSOS GROUNDWATER BASIN
BASIN MANAGEMENT COMMITTEE

Contract Legal Services

REQUEST FOR QUALIFICATIONS

NOTICE IS HEREBY GIVEN THAT THE Basin Management Committee (BMC) for the Los Osos Groundwater Basin is seeking Statement of Qualifications (SOQ) from qualified firms and/or individuals that are able to provide contract legal services to the BMC. This Request for Qualifications (RFQ) document includes background information, scope of services, SOQ and submission requirements and delineates the evaluation and selection process.

The BMC is responsible for overseeing and implementing the projects outlined in the Basin Plan for the Los Osos Groundwater Basin. To obtain the desired legal support the BMC is soliciting SOQs from qualified firms and/or individuals interested in providing the requested services. Additional information on the BMC and the requested services is provided in the following sections.

Submissions are due to the Basin Management Committee, Attention Dan Heimel at danheimel@confluencees.com no later than:

2:00 PM (PST), Friday, May 27, 2022

The award will be made on the qualifications and the best value to the BMC. This RFQ does not obligate the BMC to award a contract, and the BMC reserves the right to cancel the solicitation. If you have any questions regarding this RFQ or for further information, please contact Dan Heimel via email at danheimel@confluencees.com.

I. Background

The Los Osos Groundwater Basin (Basin) underlies the unincorporated communities of Los Osos, Baywood Park, and Cuesta-By-the Sea in San Luis Obispo County, California. The Basin is the only source of water for residential, commercial, institutional, and agricultural development in Los Osos, and is a valuable resource for the community, region, and state. The Basin quality is in jeopardy due to the following challenges:

- Water quality degradation of the Upper Aquifer, primarily due to nitrate contamination; and
- Seawater intrusion into the Lower Aquifer

The Basin is adjudicated and in 2015 the parties to the adjudication agreed to a Stipulated Judgement and Basin Plan for the management of the Basin. The Stipulated Judgement (SJ) called for the formation of the Los Osos Basin Management Committee (BMC), which consists of representatives from the Los Osos Community Services District, Golden State Water Company, S&T Mutual Water Company (Water Purveyors) and the County of San Luis Obispo (BMC Parties). The Basin Plan was prepared to establish immediate and continuing goals for management of the water resources of the Basin. It is the responsibility of the Basin Management Committee (BMC) to implement and oversee the projects outlined in the Basin Plan. A complete copy of the Basin Plan, with detailed descriptions of the programs outlined above, can be found at the following link:

http://www.slocountywater.org/site/Water%20Resources/Reports/pdf/Los%20Osos%20Basin%20Plan.pdf

In addition, the SJ can be found at the following link:

https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Los-Osos-Basin-Management-Committee-(BMC)/Stipulated-Judgment/2015-09-15-Los-Osos-BMC-Stipulated-Judgment.pdf

BMC Organization Structure

The Basin Management Committee (BMC) is a separate "governing body" created pursuant to the court-approved SJ to:

> "administer, enforce and implement the provisions of [the] [SJ], the Basin Plan, and any subsequent orders of the [c]ourt under the [SJ]." In order permit the BMC to carry out its purpose, the SJ authorizes the BMC, among other things, to "[e]mploy, or otherwise contract for the services of, agents, officers, employees, attorneys, engineers, planners, financial consultants, technical specialists, advisors and independent contractors."

At the same time, the SJ acknowledges that additional structure may be required in order for the BMC to fully exercise its powers through a joint powers authority "that may be created […] [and] whose function and authority includes serving as the [BMC] with those authorities and obligations" described in the SJ, including implementing programs to fund actions provided in the SJ and Basin Plan.

Historically, the BMC, including the Board of Directors and Executive Director, received legal input from legal counsel representing individual BMC Parties. However, given that the BMC is separate from the parties to the SJ and has its own independent authority and interests, if the BMC or its staff (currently only the Executive Director) needs legal advice it would be beneficial to have access to dedicated legal counsel, working solely for the BMC and not the BMC Parties, to provide legal advice on an as-needed basis.

To obtain the desired legal support the BMC is soliciting Statements of Qualifications from qualified firms and/or individuals (Consultant) interested in providing the requested services. The anticipated services are outlined in the following section:

II. Scope of Services

The scope of services for the BMC Legal Counsel is anticipated to include, but is not limited to, the following:

1. Providing clear and concise legal advice and consultation (oral and written) as requested or required, to the BMC Board of Directors and Executive Director on a variety of matters pertaining to all aspects of the BMC's governance, including but not limited to, Stipulated Judgement/Adjudication Compliance and potential formation of a JPA.
2. Researching and interpreting laws, court decisions, and other authorities in order to prepare legal opinions and to advise the BMC Board of Directors and Executive Director on legal matters pertaining to BMC matters.
3. Attending regular monthly Board of Director meetings (as needed) and advising the Board of Directors on matters on the agenda as well as procedural matters that may arise during and following the meeting. The BMC Board of Directors Regular Board Meetings are on the third Wednesday of each month beginning at 1:30 PM.
4. Provide guidance with regard to the requirements of the Brown Act, Conflict of Interest (AB1234), CEQA, Proposition 218/26, the Public Records Act, Water Rights and Water Law, and other legal requirements imposed by statute and common law.
5. Drafting, reviewing, and/or revising documents, including but not limited to memoranda concerning legal issues, contracts, resolutions, license agreements, notices, leases, deeds, loans, permits and staff reports.
6. Representing the BMC in litigation (civil, tort, liability, labor and employment, construction law/public works, general writ, etc.).
7. Perform other duties as directed by the Executive Director and/or Board of Directors.

III. Submittal Requirements

SOQ Content

To demonstrate qualifications and ability to perform the requested services, each prospective Consultant shall submit a SOQ that includes the following information. In the SOQ, please identify the individual to be designated BMC General Counsel, those individuals who are to provide service backup and describe those individuals' qualifications for providing legal services.

1. Legal training, years of practice and California Bar Number
2. Years of public sector law practice as a full-time local government attorney and/or in a private law office specializing in local government.
3. Knowledge and experience with community services districts, mutual water companies, Public Utilities Commission Regulated Utilities, Counties, water purveyors and land use authorities.
4. Law Litigation experience, including Water Rights and Water Law, and demonstration of litigation records results.
5. Knowledge and practice of law relating to public contracting, CEQA, NEPA, risk management, real estate, environmental issues, water rights and water law and other related law.
6. Experience in the area of Public Records Act, the Brown Act, Proposition 218 and 26 and the Elections Code.
7. Intended office location and accessibility to the BMC.
8. List three (3) professional and three (3) personal references.
9. If the individual submitting the SOQ, or any of the attorneys employed by the firm, have ever been successfully sued for malpractice, been the subject of complaints filed with the State Bar or had discipline imposed by the State Bar, please provide information on the incident.

SOQ Submittal

All interested parties shall submit an electronic PDF of the SOQ submittal to perform the requested services. Submissions are due to the Basin Management Committee, Attention Dan Heimel at danheimel@confluencees.com no later than 2:00 PM (PST), Friday, May 27, 2022.

LATE SUBMITTALS WILL NOT BE ACCEPTED

All SOQs, whether selected or rejected, shall become the property of the BMC.

Cost of preparation of the SOQ shall be borne entirely by the submitting party.

SOQs shall be signed by an authorized employee in order to receive consideration.

Inquiries

Questions regarding this RFQ shall be submitted in writing to Dan Heimel at danheimel@confluencees.com.

IV. Compensation and Reimbursements

It is anticipated that the BMC's Board of Directors will expect its contract legal counsel to provide basic services under an hourly rate (i.e., time and materials).

1. Please state the hourly rates for the key personnel, specifically the designated BMC General Counsel, the individual(s) providing back-up for the BMC General Counsel, partners/principals, and associates for general work and for special services such as litigation, on Attachment "A". (Substitution of the designated key personnel will not be permitted without prior written approval of the BMC.)
    a. Please define what would be considered extraordinary service to be provided over and beyond normal services and the basis for compensation thereof.
    b. Define the type and unit rates for reimbursement of expenses; for example, rate for mileage, reproduction of documents or word processing charges, facsimile or telephone charges, any other matters that will be billed to the BMC.
    c. Describe how you bill travel, including costs and time that will be billed.
    d. Address any possible conflicts of interest, including business conflicts with other clients that may arise, as a result of work performed on behalf of the BMC.

The Consultant selected by the BMC will be required to furnish special legal services on an as needed basis when directed by the BMC Board of Directors or Executive Director. These special services, to be provided at a specified hourly rate include research, preparation and follow-through in matters involving litigation affecting the BMC. Excluded from special legal services would be litigation or defenses furnished by self-insured programs, litigation where BMC General Counsel decides to retain special counsel, if separate contracts are awarded, or other work for which the Board decides to utilize special counsel if not included in Attachment "A".

V. Selection Process

The BMC will evaluate SOQ submissions. Selection will be made based on experience and qualifications for performing the requested services. The BMC reserves the right to interview prospective firms/individuals prior to making its selection. The BMC also reserves the right to rely on information from sources other than the information provided in the SOQs.

The BMC may seek written clarification from any or all Consultants submitting an SOQ in order to better understand and evaluate the SOQ. The process may not be used as an opportunity to submit missing documentation or to make substantive revisions to the original SOQ. Finalists may be invited to present oral presentations for the purpose of introducing key members of the project team, and allowing the BMC to fully understand the Proposer's ability to meet the evaluation criteria. Oral presentations will not be scored separately. Instead, the BMC may modify SOQ scores and resulting rankings based on the oral presentation.

Below is a tentative schedule for this selection:

- Send out invitation — May 2, 2022
- Consultant to Submit SOQ — May 27, 2022
- Conduct Interviews (if needed) — Week of June 6, 2022
- Notify Consultants — Week of June 13, 2022

- Contract Award June 20, 2022
- Notice to Proceed July 1, 2022

VI. Contract

Final award shall be contingent upon selected firm/individual accepting terms and conditions in substantial conformity to the terms listed in this RFQ.

General Conditions of the RFQ

- The BMC reserves the right to reject any and all SOQs, to waive informality, to request interviews with the Consultants prior to award and to select and negotiate the services in the best interest of the BMC.
- The Consultant shall guarantee to perform the services offered and the price for services in the SOQ for a period of not less than ninety (90) days from the deadline of the submission of SOQ.
- The BMC reserves the right to accept all or part of any SOQ, and to negotiate a contract for services and costs with the selected Consultant.
- The Consultant shall provide all necessary personnel, materials, and equipment to perform and complete all work under this SOQ.

Attachment A.

Attorney Cost for Services Rendered:

Practice Areas	Firm and/or Individual	Hourly Rate
Public Agency / Municipal Law (BMC GC*)		
Back-up for the BMC General Counsel		
E-Documents and Public Records Act		
Taxes and Fees, Proposition 218, Assessments		
Eminent Domain		
Labor and Employment		
Litigation		
Contracts and Transactions		
Construction Law, Contracts and Claims		
Insurance, Liability, Tort Claims		
Land Use/Development		
Public Finance		
Environmental and Energy		
Water Rights and Water Law		

*BMC GC – BMC General Counsel: Person designated as "Key Personnel" assigned by firm and/or individual as the BMC's General Counsel.